Maritime Heritage Minnesota

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CLEAN WATER LAND & LEGACY AMENDMENT

Log Book 25 of the USS Essex

July 1, 1888 - December 31, 1888

The Day-to-Day Operations of Shipbuilder Donald McKay's Last Ship

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USS *Essex* Log Book 25

Finding Aid

Adams class ship USS *Essex* (IX-10) was designed and constructed by premier North American shipwright Donald McKay. Her keel was laid down in 1874 and she was launched in 1876. She was a three-decked wooden screw steamer sloop-of-war with auxiliary sail (bark-rigged). She was 185 feet long, 35 feet in the beam, had a 14.25-foot draft, and was 1,375 tons. When commissioned, she carried six big guns, all muzzle loaders: one XI-inch and four IX-inch Dahlgren Naval Artillery guns, and one 60-pound Parrott Rifle The ship's armory carried dozens of small arms including rifles, pistols, revolvers, and cutlasses. Further, she carried a six auxiliary boats including a launch, two cutters, a whale boat, one gig, and a dinghy. The combinations of guns and watercraft carried on board USS *Essex* could change from log book to log book. She served with the US Navy in active duty and as a training ship with the Ohio Naval Militia, the Illinois Naval Militia, and the Minnesota Naval Militia. She was intentionally burned on Minnesota Point in Lake Superior at Duluth in 1931. Her Minnesota Archaeological Site Number is 21-SL-1030 and she is a National Register of Historic Places Property.

Maritime Heritage Minnesota digitized the 62 known USS *Essex* log books held at the National Archives in Washington, DC, and at the US Naval Academy in Annapolis in 2010. The log books consist of the daily activities on board the *Essex* as recorded by deck officers on duty. Those deck notes were then transcribed to be the official log of the *Essex* that were sent to the Navy Department in Washington, DC, where they were bound into their current book form. At the beginning of most log books, there are: a title page, two list of officers pages, a crew complement page (listing the crew by rank and job), an armaments page (list of the different large guns, boats, and small arms), and two pages of compass observations. Not all log books contain these pages and some include additional information, including a plan and section of the *Essex* in Log Books 8 and 9 and four pages of directions on how to fill out log pages in Log Book 21. Sometimes two transcribed versions of log pages were sent to the Navy Department and duplicate books were produced. However, sometimes the duplicate books were not bound with exactly the same pages, so some books overlap each other in date. Also, some log book pages have writing too close to its spine edge and after binding, some words and numbers were 'lost' in the spine if the binding remained tight over the decades. Further, it must be kept in mind that the names of ships, both American and foreign, as well as geographical locations usually expressed in different languages will have variations in spelling. With this in mind, the deck officers of the *Essex*, when writing the log pages, may misunderstand what the actual name of a ship or geographical marker actually is and their handwriting may present challenges or be nearly illegible. The digitization and editing of the USS *Essex* log books were made possible with funding provided by the Minnesota Historical and Cultural Heritage Grant

program, part of the Arts and Cultural Heritage Fund of the Clean Water, Land and Legacy Amendment.

Log Book 25 of the USS *Essex*: July 1, 1888-December 31, 1888

The National Archives houses USS *Essex* Log Book 25. Throughout Log Book 25, comments were made on:

- sail adjustments with sail type and action specified
- banking of boiler fires in order to put the ship on stand-by for immediate use
- coupling and uncoupling the propellor when the ship was shifting from steam to sail and *vice-versa*
- when under steam the different watches record the average steam boiler pressure and engine revolutions
- lowering of smokestack and proceeded under sail and *vice-versa* when the *Essex* was underway
- when anchored nearly every watch described the state of the anchor cables: crossed ('cross in hawse, stbd chain on top' or 'Elbow in hawse') and often will mention 'clearing the hawse' (the crossed anchor cables were uncrossed)
- casting deep sea lead for soundings
- patent log readings
- water distillation using the ship's boilers to produce freshwater and refilling the freshwater tanks
- coaling of the ship
- weather recording: temperature, wind speed and direction, barometer readings, state of the sea
- recording the ship's behavior (heavy rolling or pitching)
- crew conducting ship maintenance: general ship cleaning, bilge cleaning and checking pumps, scraping and painting - and sometimes tarring and caulking - the ship's hull and infrastructure, tarring down rigging, loosed sails to dry,, scrubbing masts and yards, steam cutter maintenance/repair, whale boat maintenance/repair, turned and cleaned hammocks and bedding, painting hammock netting panels
- crew conducting drills: target practice with the main battery (great guns), boat drills - all hands called to arms and away all boats for naval tactics under sail and oars, on shore target practice, general quarters drills, small arms drills, fire drills, abandon ship drills, howitzer drills, battalion drills, rifle drills machine gun drills, landing party drills,
- receiving fresh water from shore through pumps or lighter
- receiving provisions and stores: food, medical supplies, clothing, engineering gear, construction
- Quarterly Board of Survey's findings of condemned articles on board (food, equipment) and their fate (food was usually tossed overboard) from the inventories of the different ship's departments (Ordnance, Engineering, Navigation, Equipment, Medical, Pay)
- crew promotions
- crew quarters inspection

- crew members are discharged at their own request (DOR)
- lists of new crew members - recruits or transfers from other ships- taken on board during a cruise
- crew transfers to other ships
- crew members in solitary confinement or other punishments for various infractions, AWOL crew, general and summary court martial proceedings, AWOL crew put in irons
- rewards offered for the return of AWOL crewmen
- weekly Sunday services; after the services, once a month, the Articles for Better Government of the Navy were read to the crew

NOTE: The *Essex* deck officers who recorded the daily happenings on the ship often translated the names of non-American ships incorrectly. MHM determined the correct spellings of the ships and those corrections are reflected in the Finding Aid, not the poorly transliterated ship names.

At the beginning of Log Book 25, in July 1888, USS *Essex* was anchored in Chemulpo (Incheon) Harbor, Corea (Korea), under Commander Theodore Frelinghuysen Jewell. USS *Essex* was assigned to the US Asiatic Squadron. During the first two days of July 1888, *Essex* received visits from officers of English sloop HMS *Satellite*. On July 3, an officer representing the foreign ships in the harbor was sent to inform Commander Jewell that the foreign warships would be dressed for Independence Day. On July 4, the crew dressed *Essex* in rainbow fashion for Independence Day and the small boats from all the foreign men-of-war in the harbor participated in a regatta.The sloop-of-war USS *Juniata,* protected cruiser HMS *Leander*, Russian gunboat *Bobr*, HMS *Satellite*, and Japanese gunboat *Iwaki* fired a 21-gun salute. The English Consul visited the ship to acknowledge Independence Day and a crewman (George Cope) was placed under a sentry's charge to await investigation by Commander Jewell in the case of an assault of a Japanese sailor. The next day, *Essex* and *Juniata* exchanged signals; the German steamer *Deutschland* and Chinese steamer *Wang Chi* anchored in the harbor. On July 6, Crewman Cope was sentenced to confinement for 10 days in double irons for assault and reduced in rating. Another crewman was reduced in rank for disorderly conduct and using foul language while on liberty ashore. A Chinese officer from a man-of-war made a courtesy visit to inform *Essex* when they were to sail. The next day, Japanese mail steamer SS *Owari Maru* anchored, a Chinese ship left the harbor, and *Essex* sent an officer for a courtesy visit to the gunboat *Bobr* before going to sea.

Essex went into the Yellow Sea and around Corea, and northeastward into the Sea of Japan. Along the way, the crew conducted military drills and exercises. On July 10, the ship moved slowly and took soundings, and then anchored in heavy fog all the next day, getting underway on July 12. Four days later, the ship anchored in Vladivostok Harbor, Russia, and received a visit from the Russian Boarding Officer; Commander Jewell left *Essex* and paid official visits, while a Russian gunboat anchored in the harbor. On July 18 visits were exchanged with a Russian Rear Admiral, the Governor of Vladivostok, the officers of Russian screw clippers *Nayezdnik* and *Razboinik*, Russian gunboat *Rynda,* and armored cruiser Russian Flagship *Dmitrii Donskoi*. *Essex* also accepted on board

the distressed US seaman John W. Auld, with orders to deliver him to the next port with a US Consul. Over the next two days, some of the Russian ships leave Vladivostok Harbor, with 7-gun and 13-gun salutes. On July 20, *Essex* was coaled from three lighters and three days later, she left the harbor heading east across the Sea of Japan.

On July 26, *Essex* anchored in Hakodate Harbor on Yezo Island (Hokkaido), Japan, and sent a ship's boat for the mail. Visits were exchanged between officers and dignitaries from the French battleship Flagship *Turene,* Russian screw clipper *Razboinik*, the aid to the Governor of Hakodate, French corvette *Parseval*, the English Consul, the acting Governor of Yezo. Also, Commander Jewell accepted the enlistment of John W. Auld as a Landsman for the current *Essex* cruise and the Japanese mail steamer *Wakanoura Maru** anchored at Hakodate. The next day, the crewmen conducted drills and in the process, broke one handspike during a gun drill and one boat hook. Two more French warships entered the harbor on July 28, and visits were exchanged between *Essex* and the French Flagship *Turene*, corvette *Primauguet*, and the corvette *Parseval*. On July 31, an English fleet of 12 vessels anchored in the harbor, led by the armored cruiser Flagship HMS *Imperieuse*** flying a Vice Admiral's pennant; courtesies were exchanged and a French gunboat came in and anchored after dark.

On August 1, 1888, *Essex* up-anchored and left Hakodate Harbor heading southward. Two days later while heading along the shoreline of Japan, the crew noted 'discolored water' that prompted Commander Jewell to slow down to one bell. The next day, *Essex* stood up and into Yeddo (Tokyo) Bay, changing her course frequently to clear several small northward-bound vessels. At one point, the ship passed through very disturbed waters and tide rips, and she passed sloop-of-war Flagship USS *Brooklyn* and sloop USS *Marion*; signals were exchanged. *Essex* paused to launch a boat that was sent to the Quarantine steamer, and then on August 4, she anchored in Yokohama Harbor. *Essex* exchanged pleasantries with gunboat USS *Monocacy*, and the Japanese mail steamer SS *Hiogo Maru* anchored in the harbor. Throughout the first half of August, the ship's crew scrubbed the yards and masts, painted the white stripes down the outer hull, loaded the port broadside with blank cartridges, and examined the steering gear and fitted new sheaves for the steering ropes. Also, three crewmen transferred to the Yokohama Navy Hospital. Between August 8 and 15, the Occidental and Oriental Steamship Company (out of San Francisco) steamer *Oceanic* left for America, SS *Meiji Maru* left the harbor, English steamers *Bokhara* of Greenock, *Albany*, and *Dorset* anchored, German steamer *General Werder* arrived and anchored in the harbor, and the Pacific Mail Steamship Company (based in New York) vessel *Rio de Janiero* was visited by a ship's officer. *Essex* received gunnery related stores from *Monocacy* as well as long list of medical supplies. On August 16, the ship received 12 packs of clothing intended for USS *Juniata* and the next day, *c*rewmen were swapped with USS *Monocacy* before *Essex* left Yokohama.

Steaming into Yeddo Bay, *Essex* passed a steamer and two schooners, and headed into the Inland Sea, through the Kii Channel and into Kobe Harbor on August 20. Courtesies were exchanged with sloop USS *Marion*, iron gunboat USS *Palos*, the US Vice-Consul, and Read Admiral Ralph Chandler. Two General Court Martial prisoners

were received on board *Essex* and the newly-launched Japanese mail steamer SS *Saikio Maru* anchored. On August 24, *Essex* left Kobe Harbor during the night, and headed for Chemulpo (Incheon), Corea (Korea) through the Inland Sea for two days, passing two steamers. On August 26 she passed through Shimonoseki Strait into the Sea of Japan, heading west. On August 28, *Essex* passed Japanese mail steamer SS *Owari Maru* and the crew conducted gunnery and torpedo drills. The next day, the ship anchored in Chemulpo Harbor. Until the end of August, *Essex* exchanged courtesies with USS *Juniata*, Russian gunboat *Korietz*, Chinese protected cruiser *Jiyuan*, the US Minister Resident at Seoul (now in Chemulpo), the English Consul, the Commissioner of Customs, gunboat HMS *Rattler*, and Chinese gunboat *Chen Hai*. Essex transferred General Court Martial prisoners to USS *Juniata*, and the crew kept busing blacking down all the rigging.

Throughout September 1888, *Essex* was at anchor in the harbor at Chemulpo, Corea. Commander Jewell and his officers exchanged visits and courtesies with the Japanese ironclad Flagship *Fuso* (flying Rear Admiral Ito's pennant), Japanese cruiser *Musashi*, British gunboat HMS *Rattler*, Japanese steamer SS *Tsuruga Maru*, Japanese unprotected cruiser *Tsukushi*, Japanese corvette *Kaimon*, the Japanese Consul, the English Consul General, the Commissioner of Customs for Korea, Russian gunboat *Korietz*, Japanese gunboat *Banjo Kan*, and Corean mail steamer *Kwang-chi*. Several of these vessels left harbor during the month. A party of officers and men in charge of Lt. Walling left the ship on three days leave, and the ship's crew participated in several exercises during the month. The men exercised in crews at boats under sail, exercised in the sailing launch under oars while firing the howitzer with blank charges, and conducted torpedo exercises with the steam launch; the 2nd cutter's foremast was carried away while the boat was returning from shore under sail. Also, the divisions exercised with the great guns, rifles ,and machine guns, the officers called away all boats and exercised fleet tactics under oars, another division drill of dismounting and transporting the broadside guns. With some time off, the sailing launch was used by a picnic party.

Ship's maintenance in September included unshipping the wheel and its stanchions for scraping and varnishing, the Carpenters Gang was busy caulking the hull, and some galvanized iron boat fittings were too weak and carried away the worm-shaft on the starboard side - it was set for repairs. On September 21, Japanese gunboat *Banjo-kan* requested *Essex* to be dressed the next day on the occasion of the Autumnal Fete of the deceased Empress of Japan; Commander Jewell complied. On September 23, a Japanese officer visited the ship to express thanks for participation in the Autumnal Festival. Near the end of September, the Pay Master received an amount of money for dispersal: 4605.26 in 'Mexicans'.

For the first three weeks of October 1888, USS *Essex* remained in Chemulpo and ship's maintenance and repairs continued. The crew were engaged in painting the hammock netting panels and the Carpenter's Gang was at work on the steam cutter and whale boat. A leak was discovered in the starboard copper of the galley and it was taken out for repairs; it was badly pitted and had two holes clear through the bottom near the drain

cock. The Navigation Division took all the ship's compasses ashore and tested them for accuracy and sensitivity. The crew also broke out the forehold, cleaned it, and re-stowed it, and aired all the ship's bedding. On October 5, the crew observed a brilliant meteor to the northeast during the evening hours. Early in October, the Pay Master served out the monthly crew pay - 'in Mexicans'. The men were also busy participating in military drills including small arms practice on Roze Island, they exercised at transporting the broadside guns, on-shore target practice with small arms, General Quarters drills, fire quarters drills, and abandon ship drills. Courtesies were exchanged with the Japanese Consul of Chemulpo, the US Minister to Corea, and the Russian gunboat *Korietz*. The Japanese mail steamer SS *Tsuruga Maru* anchored in the harbor and left the next day; the Japanese mail steamer SS *Higo Maru* anchored at Chemulpo and left four days later. Cadet Engineer D.C. Redgrave received his commission as Assistant Engineer and Ensign H. Herwig was detached from the *Essex* and left on the *Tsuruga Maru* to report to the Commanding Officer of the iron gunboat USS *Palos*.

On October 20, *Essex* went to sea, hauling fires in boilers #1 and #3 on account of a leak, heading westward across the Yellow Sea. Along the way, the crew sighted a barquentine heading to the northeast and a barque headed east. On October 22, *Essex* anchored off the coast of China southeast of Chefoo off the province of Shan Tung (Shandung), and officers paid a visit to Chinese officials on shore. The next day, a boat was sent ashore to communicate with American missionaries based there. On October 26, the 1st cutter struck a grapnel on returning from shore and knocked a hole in her starboard bow. The next day, *Essex* got underway, heading to the northwest, passed Chefoo Cape, and she steamed into Chefoo Harbor (Yantai, China) and anchored. Commander Jewell and his officers exchanged courtesies with the US Consul and the British gunboat HMS *Alacrity* bearing the pennant of Vice Admiral Sir Nowell Salmon. *Essex* took on coal from a lighter; the lighter carried off one of the ship's cork fenders. Later that same day, *Essex* left Chefoo Harbor heading east around Chefoo Cap and then south through the Yellow Sea toward Shanghai. On the way, the Carpenter's Gang repaired the starboard hole in the 1st cutter's bow. On October 30, the crew sighted two junks and a steamer and later that day, *Essex* stood up the south channel of the Yangtse River - Commander Jewell was at the conn. The Commander ordered the Navigator lower the whale boat to take soundings as they were riding on a flood tide; she anchored for the night. *Essex* got underway on the morning of October 31, again with Commander Jewell at the conn. The ship took on a Pilot and then stood for entrance to the Wosung River (Suzhou Creek) - *Essex* shot a 10 pound charge in a 9-inch gun in salute. The Chinese Pilot had the conn and took on the Harbor master, mooring in Shanghai. *Essex* exchanged signals with sloop Flagship USS *Marion* and sloop USS *Omaha*. Commander Jewell received an official visit from the US Consul General J.S. Kennedy, accompanied by Vice-Consul Emmons, and an officer of the sloop-of-war HMS *Mutine*. USS *Marion* transferred a crewman returned from the US Hospital at Yokohama to the *Essex.*

USS *Essex* spent the entirely of November 1888 anchored at Shanghai, China. Courtesies and visits were exchanged between *Essex* and the US Consul General, Flagship USS *Marion* and USS *Omaha*, survey vessel HMS *Rambler*, three other

English warships, and American bark *Sunbeam*. Between November 12, the Rear Admiral's pennant was hauled down on Flagship USS *Marion* and hoisted on the Guard Ship USS *Omaha*, making her the Squadron Flagship when Admiral Ralph Chandler and his staff boarded her. The Guard Flag was hauled down on *Omaha* and hoisted on *Essex*; *Marion* steamed down the river. Later that day, when *Marion* returned, the entire procedure was reversed. Similarly, when RearAdmiral Chandler and his staff boarded *Essex* for an inspection on November 15, his pennant was hauled down on *Marion* and it was hoisted on *Essex*; the procedure was reversed when Chandler left after the inspection. Another inspection was ordered on November 28, when all the ship's boats - armed and equipped - were called away to Flagship USS *Marion* for the Admiral's attention. Throughout their time moored at Shanghai, the American ships in port exchanged signals.

In the first half of November, a Chinese man-of-war passed the American ships, going upriver, and a small Chinese gunboat anchored nearby. On November 19, *Essex* put her colors at half-mast in commemoration of the death of the Italian Consul in Shanghai. Throughout the last three weeks of November, the *Essex* crew conducted various exercises including boat drills with the boats armed and equipped for shore action. They landed a battalion and conducted brigade drills, and put together and landed a 'specially formed' Land Brigade. These exercised took place over several days, with many crewmen spending time away from the ship overnight. In the latter half of the month, *Essex* took on a load of quality Cardiff coal and various items were transferred to the ship from USS *Omaha*; including10 service revolvers that replaced 10 revolvers condemned by survey, on order of Commander-in-Chief Chandler. The condemned armaments were transferred to USS *Omaha*.

Commander Jewell disrated A. Lindquist (Bugler) to seaman on account of being unable to blow calls. Several *Essex* crewmen were AWOL, drunk, and returned by the Consular police to *Essex* with some rewards paid. Also, the US Consul General sent an officer to the Consulate to represent *Essex* in two cases of crewmen who were charged with crimes - one for assault and one for disorderly conduct and drunkenness. During the month, a crewman was transferred to Shanghai General Hospital, a crewman returned from Yokohama Naval Hospital, and several crewmen - including some Marines - were swapped with USS *Marion* and USS *Omaha*. A number of Essex crew were also discharged at their own request, many of them with Asian names. And, on November 29, the crews had a gig race between *Omaha* and *Essex* - *Essex* won.

USS *Essex* remained moored in Shanghai, China throughout December 1888. In early and mid-December, the Battalion landing drills continued. During these new exercises, the log noted that "Wm. Branagan (CH) was incarcerated in the Shanghai Jail for falling down in ranks from beastly intoxication." On December 3, an auction was held of the effects of deserters; the next day, the Pay Master received 19,168 Mexican dollars for payroll and to pay local authorities for AWOL rewards. Engineering Crew repairs to the boiler of the steam cutter occurred twice mid-month, once for a burst tube; both jobs involved hoisting the boiler out of the boat. Among the exercises conducted during December, the crew practiced with the great guns, in small boats, and they had another

all boats called away for tactics exercise. Mid-month, the ship's Marine Guard was called to duty and sent ashore to escort Commander-in-Chief Chandler while conducting his business. Throughout the month, signals were exchanged with flagship. However, twice the fog was so thick the flagship could not be seen until later in the morning. One instance, during night signals with the flagship, *Essex's* green lights failed four times when making an 'O'. *Essex* had to signal using night code - Morse - and said 'ammunition is too poor to allow us to make signals'. Throughout the month, *Essex*, *Marion*, and *Omaha* swapped crewmen and two crewman returned to *Essex* from the Yokohama Hospital via a Japanese steamer. *Essex* also sent 20 hammocks to *Marion*.

During December a Chinese gunboat left the port, the USS *Omaha* shifted her berth, two Chinese gunboat came to anchor, *Essex* shifted her berth with the Berthing Master on board, and HMS *Mutine* and another Chinese gunboat left Shanghai. On December 17, *Essex* crewmen won a cutter race on a 3-mile course against the Flagship USS *Marion* team - *Essex* won by five boat lengths. Again, during a Christmas Eve Day festivity, *Essex* won another 3-mile cutter race against *Marion*. On December 26, Commander Jewell ordered a search of the engine room; the search failed to turn up any liquor. The search was conducted after many days of punishments for drunkenness, and for attempting to smuggle liquor on board. On December 29, Flagship USS *Marion* shot a 3-gun salute with the Chinese flag at the fore and the next day, *Essex* - with her colors half-masted - sent a burial party to the Flagship for the funeral of a *Marion* crewman. British gunboats HMS *Firebrand* and HMS *Cockchafer* anchored at Shanghai and courtesies were exchanged.

*The log book states the Japanese mail steamer *Yuman Maru* anchored at Hakodate, but there is no ship with this name. According to a contemporary Japanese newspaper, the mail steamer *Wakanoura Maru* arrived at Hakodate on that date.
**The 11 warships that anchored with armored cruiser Flagship HMS *Imperieuse* at Hakodate were gunboat HMS *Alacrity*, corvette HMS *Constance*, corvette HMS *Cordelia*, corvette HMS *Heroine*, protected cruiser HMS *Leander*, gunboat HMS *Linnet*, sloop-of-war HMS *Mutine*, cruiser HMS *Porpoise*, gunboat HMS *Rattler*, corvette HMS *Sapphire*, gunboat HMS *Swift*

Tags:
American Ships: sloop Flagship USS *Brooklyn*, sloop-of-war USS *Essex*, sloop-of-war USS *Juniata*, sloop USS *Marion*, gunboat USS *Monocacy,* mail steamer *Oceanic* (American operated, British owned), sloop USS *Omaha*, iron gunboat USS *Palos*, mail steamer *Rio de Janiero*, bark *Sunbeam*

British Ships: gunboat HMS *Alacrity*, steamer *Albany*, steamer *Bokhara*, gunboat HMS *Cockchafer*, corvette HMS *Constance*, corvette HMS *Cordelia*, steamer *Dorset*, gunboat HMS *Firebrand*, corvette HMS *Heroine*, armored cruiser Flagship HMS *Imperieuse*, protected cruiser HMS *Leander*, gunboat HMS *Linnet*, sloop-of-war HMS *Mutine*, cruiser HMS *Porpoise*, survey vessel HMS *Rambler*, gunboat HMS *Rattler*, corvette HMS *Sapphire*, sloop HMS *Satellite*, gunboat HMS *Swift*

Chinese Ships: gunboat *Chen Hai*, protected cruiser *Jiyuan*, steamer *Wang Chi*

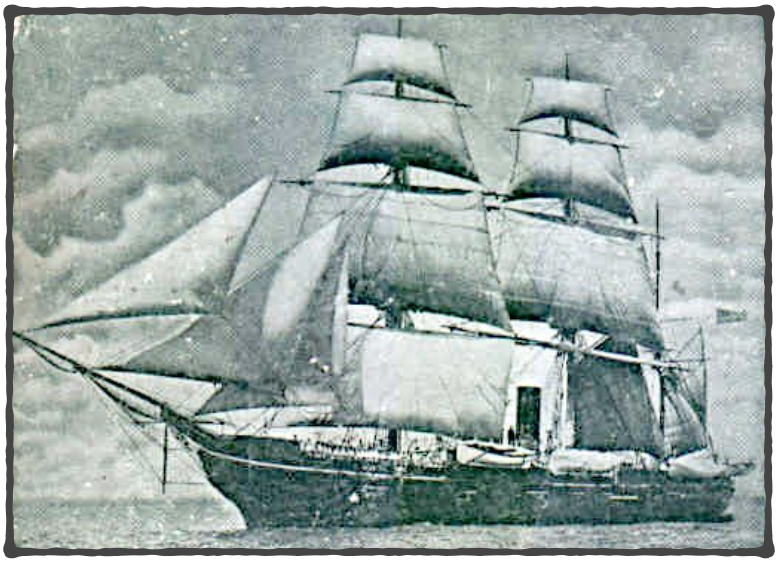
French Ships: corvette *Parseval*, cruiser *Primauguet*, battleship Flagship *Turene*

German Ship: steamer *General Werder*

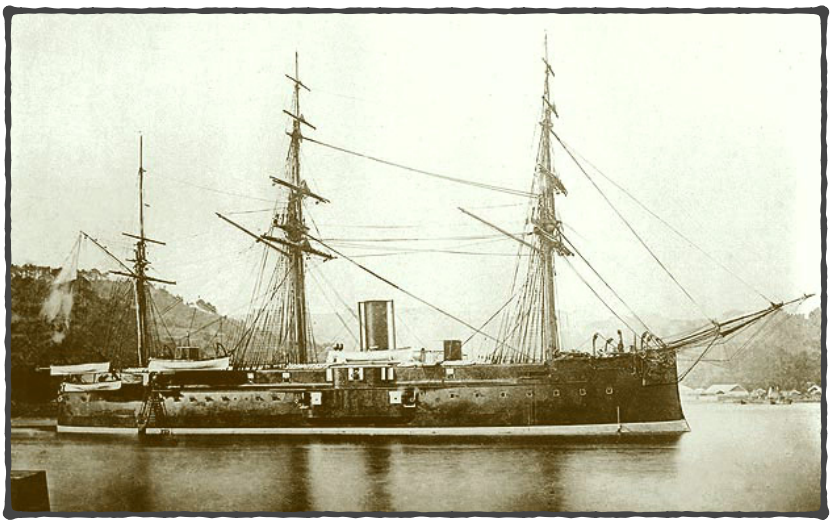
Japanese Ships: ironclad *Fuso*, mail steamer SS *Higo Maru*, mail steamer SS *Hiogo Maru*, gunboat *Iwaki*, corvette *Kaimon*, mail steamer SS *Meiji Maru*, cruiser *Musashi*, mail steamer SS *Owari Maru*, mail steamer SS *Saikio Maru*, unprotected cruiser *Tsukushi*, steamer SS *Tsuruga Maru*

Korean Ship: Corean mail steamer *Kwang-chi*

Russian Ships: gunboat *Bobr*, armored cruiser Flagship *Dmitrii Donskoi*, gunboat *Korietz*, screw clipper *Nayezdnik*, screw clipper *Razboinik*, corvette *Rynda*



USS *Essex*



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LOG BOOK

OF THE

U.S.S "Essex"

3d RATE

OF Six GUNS,

COMMANDED BY

Commander T. F. Jewett, U.S. Navy,

Attached to Asiatic Squadron,

Commencing July 1st, 1888,

at Chemulpo, Corea,

and ending December 31st, 1888,

at Shanghai, China.

BUREAU OF NAVIGATION,

NAVY DEPARTMENT.

1886.

LIST OF OFFICERS

Attached to and on board of the U. S. S "Essex", commanded by Commander T. F. Jewell, U. S. N., during the period covered by this Log-Book, from July 1st, 1888, to December 31st, 1888.

NAME.	RANK.	NAME.	RANK.
T. F. Jewell	Commander		
J. A. Beckwith	Lieut.-Comdr.		
C. A. Calloway	Lieutenant		
A. F. Fechteler	Lieutenant		
H. C. Poundstone	Ensign		
W. B. Haggart	Ensign		
F. J. Loomis	Ensign		
J. A. Hawke	Surgeon		
J. W. Stivers	Chief Engineer		
H. R. Lemly	P.A. Paymaster		
H. Herwig	P.A. Engineer		
D. C. Redgrave	Cadet Engineer		
C. F. Craig	Naval Cadet		
R. S. Wainwright	1st Lieut. U.S.M.C.		
W. S. Barnes	Pay Clerk		
B. T. Walling	Lieutenant		
H. Rodman	Ensign		
J. K. Barton	P.A. Engineer		
C. E. Hudson	Naval Cadet		
H. C. Haring	Lieutenant		

Examined and found to be correct.

C. C. Calloway
Lieut. and Navigator.

LIST OF OFFICERS

Who have died, been detached, or transferred, on board the U. S. S Essex 3d Rate

commanded by Comdr T. F. Jewell, U. S. N., during the period covered by this

Log-Book, from July 1st, 1888, to December 31st, 1888.

NAME.	RANK.	TIME OF OCCURRENCE AND PARTICULARS.
H. C. Poundstone	Ensign	July 4th 1888 Transferred to U. S. S. Brooklyn
H Herring	P. A. Engineer	Oct 19th 1888 do to U. S. S. Palos
A. F. Fechteler	Lieutenant	Nov 8th 1888 Detached by Admirals order
C. F. Craig	Naval Cadet	Dec 16th 1888 Hospital, Shanghai, China

Examined and found to be correct.

C. H. Galloway

Lieut & V Navigator.

COMPLEMENT of Petty Officers, Seamen, Ordinary Seamen, Landsmen, Boys, and Marines on board of the U. S. S "Essex" at first commissioning June 21st 1886.

NUMBER ALLOWED.	RATES.	NUMBER ON BOARD.
1	Chief Boatswain's Mate,	1
2	Boatswain's Mate,	2
	Seamen Gunners,	
1	Chief Gunner's Mate,	1
	Gunner's Mates,	
1	Chief Quartermaster,	1
3	Quartermasters,	3
3	Coxswains,	3
2	Captains of Forecastle,	2
4	Captains of Tops,	4
2	Captains of Afterguard,	2
3	Quarter-Gunners,	3
1	Carpenter's Mates,	1
1	Sailmaker's Mates,	1
1	Armorer,	1
1	Captains of Hold,	1
1	Ship's Cook,	1
1	Ship's Corporals,	1
1	Lamp-lighter,	1
2	Carpenters and Calkers,	2
1	Baymen,	1
1	Master-at-Arms,	1
1	Apothecary,	1
1	Ship's Yeoman,	1
1	Paymaster's Yeoman,	1
1	Engineer's Yeoman,	1
1	Schoolmaster,	1
1	Ship's Writer,	1
1	Ship's Tailor,	1
1	Ship's Barber,	1
1	Painter,	1
1	Bugler,	1
1	Jack of the Dust,	1
1	Blacksmith,	1

NUMBER ALLOWED.	RATES.	NUMBER ON BOARD.
1	Cabin Steward,	1
1	Cabin Cook,	1
1	Ward-room Steward,	1
1	Ward-room Cook,	1
1	Steerage Stewards,	1
1	Steerage Cooks,	1
	Warrant Officer's Steward,	
	Warrant Officer's Cook,	
8	Seamen,	8
	Ordinary Seamen,	1
16	Landsmen,	16
	Boys,	
70	Apprentices,	63
2	Machinists,	2
1	Boiler Makers,	1
3	Water Tenders,	3
3	Oilers,	3
1	First-class Firemen,	1
6	Second-class Firemen,	6
12	Coal Heavers,	12
	TOTAL,	166
	ADDITIONAL FOR FLAGSHIP.	
	Master of the Band,	
	Chief Musician,	
	First-class Musicians,	
	Second-class Musicians,	
	Printer,	
	Steward to Commander-in-chief,	
	Cook to do.	
	Coxswain to do.	
	Seamen to do.	
	Ordinary Seamen to do.	
	Landsmen to do.	

Examined and found to be correct.

T. D. Galloway Lieut. and Navigator.

U. S. S "Essex"

Description of Instruments used for Meteorological Observations, their Location, &c.

INSTRUMENT.	MAKER.	NUMBER.	LOCATION.	DATE OF LAST COMPARISON.	COMPARED WITH—	ERROR.
MERCURIAL BAROMETER.	Jas Green New York Patented Hongkong 1867	1496	Capt's Office Aback Armory	June 4 1888	U.S.N.Y. Brooklyn	-.03
ANEROID BAROMETER.	H P B N		Cabin Quarterdeck			
THERMOMETER, (Dry Bulb.)	J. & H. J. Green	1520	Mizz Mast Under Poop Deck	March 20/85	Signal Office Washington	18" - 0.3 To + 112° + 0°.1
THERMOMETER, (Wet Bulb.) (Psychrometer.)	J. & H. J. Green	1534	Same	Same	Same	18° - 0°6" To + 2° + 0.1

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

ARMAMENT

Of the U. S. S

PRIMARY.

NO. OF GUNS.	CAL.	MARK.	DESCRIPTION.	CARTRIDGE. POWDER.	CARTRIDGE. WEIGHT.	PROJECTILES. KIND.	PROJECTILES. WEIGHT.	CARRIAGES.	REMARKS.
No 365	9"	Car Co.	D. B.	Cannon 15 lbs.		Shot	90 lbs.	No 4	Broadside
364	"	"	"	"	"	Shell	70 "	" 18	do
368	"	"	"	"	"	Grape	74 "	" 74	do
366	"	"	"	"	"	Canister	75 "	" 52	do
No 13	8"	B. F.	Consented Rifle	4 ef.	34 "	Butler	168 "	No 31	Iron Pivot.
	60 Pds.		Same Rifle	6 "		Parrott	60 "		Directing Bar.

SECONDARY.

No 14	45	Gatling	

BOAT ARMAMENT.

One 12 Pdr. Light S. B. Dahlgren

One 3" B. L. R.

SMALL ARMS.

75 Hotchkiss Repeating	Rifles	Cal. 45
75 Colts Revolvers		do 38
70 Cutlasses		

Examined and found to be correct.

E. K. Galloway Lieut. and Navigator.

TABLES of Deviation of the Standard Compass No. 68 on board the U. S. S "Essex"

Date:	Oct 1888.
Place of Observation:	Chemulpo, Corea
Latitude:	37° 27' 45 N.
Longitude:	126 35 41 E
Observed Variation:	4°30' W.

SHIP'S HEAD BY COMPASS.	DEVIATION.	DEVIATION.	DEVIATION.	DEVIATION.	DEVIATION.	DEVIATION.
NORTH.	0° 39' E					
N. by E.						
N. N. E.	2° 09 E					
N. E. by N.						
N. E.	2° 39 E					
N. E. by E.						
E. N. E.	2° 09 E					
E. by N.						
EAST.	1° 09 E					
E. by S.						
E. S. E.	0° 09 E					
S. E. by E.						
S. E.	0° 51 W					
S. E. by S.						
S. S. E.	1° 00 E					
S. by E.						
SOUTH.	1° 21 W					
S. by W.						
S. S. W.	1° 21 W					
S. W. by S.						
S. W.	1° 21 W					
S. W. by W.						
W. S. W.	1° 21 W					
W. by S.						
WEST.	1° 21 W					
W. by N.						
W. N. W.	1° 21 W					
N. W. by W.						
N. W.	1° 21 W					
N. W. by N.						
N. N. W.	1° 21 W					
N. by W.						

Examined and found to be correct.

E. D. Galloway
Lieut U.S.N.

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Chemulpo, Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N by E.	South	1			29.92	71	71	69		b.c.z.	Cir. Cum.	6	4
2	"			"	"	1			29.92	71	71	69		o.c.z.	"	0	"
3	"			N.W. by N	"	1			29.92	72	71	70		"	"	0	"
4	Flood.			S. by W.	"	1			29.92	72	71	70		b.c.z.	"	2	"
5	"			"	"	1			29.92	72	71	70		"	"	2	"
6	"			"	"	1			29.91	72	71	70		"	"	2	"
7	"			"	"	1			29.91	72	71	70		"	"	2	"
8	"			"	"	1			29.92	73	71	70		"	"	2	"
9	"			"	Calm	0			29.93	74	72	70		"	"	6	"
10	"			S. S. W.	"	0			29.93	74	73	70		"	"	6	"
11	"			N.W. by N	West	1			29.94	75	73	71		"	"	7	"
Noon.	Ebb.			North	"	1			29.94	75	73	71		"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 106 " 594 "

P. M.														
1	Ebb.	North	West	1	29.93	74	74	71	b.c.z.	Cir. Cum.	7	4
2	"	"	"	1	29.94	74	74	71	"	"	7	"
3	"	N.N.W.	"	1	29.94	75	75	71	"	"	8	"
4	Flood	S.W. by S.	"	2	29.92	77	75	71	"	"	9	"
5	"	"	"	2	29.90	76	75	72	b.c.	"	9	"
6	"	"	N.N.W.	2	29.88	76	75	72	"	"	9	"
7	"	"	"	2	29.88	75	74	71	"	"	8	"
8	"	"	"	2	29.88	75	74	71	"	"	8	"
9	"	S. S. W.	S.W.	2	29.89	75	74	71	b.c.z.w.	None	10	"
10	"	S.W. by S.	"	1	29.90	75	73	71	"	"	10	"
11	"	S.W.	"	1	29.90	74	72	70	"	"	10	"
Mid.	Ebb.	N by E.	"	1	29.88	72	71	69	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday July 1st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M
Cloudy & hazy. Light airs from South.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.
Cloudy & hazy. Light airs from South. Rec'd. in Pay Dept. 95 lbs bread. Flood tide.

T. F. Jewell
Ensign U. S. N.

From 8 A. M. to Meridian.
Generally clear & pleasant. Calm first two hours then light airs from West. At 11:00 swung to ebb. At 9:30, Commander inspected ship with crew at quarters. At 9:40 called all hands to muster, read articles for better government of Navy & mustered crew. Recd a visit from an officer of Satellite to thank us for visit paid yesterday

A. F. Fechteler
Lieut U. S. N.

From Meridian to 4 P. M.
Clear & warm. Light airs & breeze from West. Swinging to flood at end of watch. Discharged Morikawa Kumoska (Lds) at his own request, he waiving all claims to transportation &c.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.
Clear & pleasant. Light breeze from West & N. N. W.

At 4:30 swung to flood.

A. F. Fechteler
Lieut U. S. N.

From 8 P. M. to Midnight.
Clear, hazy & pleasant. Light airs & breeze from S. W. by W.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

E. W. Galloway
Lieut. & Nav. Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo, Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N by E.	N by E.	1			29.84	71	71	69		b.c.m.	Cum. Strat.	8	S.
2	"			N.N.E.	Calm	0			29.89	71	71	69		"	"	8	"
3	"			"	N.N.E	1			29.89	71	70	68		"	"	8	"
4	"			"	E.N.E.	1			29.87	71	71	69		"	"	7	"
5	Flood			South	Calm.	0			29.85	71	70	68		"	Cir Cum. & Strat.	5	"
6	"			S.S.W.	"	0			29.84	71	70	68		b.c.z	"	4	"
7	"			"	"	0			29.85	71	71	69		"	"	2	"
8	"			"	"	0			29.85	71	71	69		o.c.z.	Cum. Nimb.	0	"
9	"			"	"	0			29.86	72	71	69		"	"	0	"
10	"			"	N by E.	2			29.86	73	72	70		"	"	0	"
11	"			S.W. by S.	North	1			29.85	74	73	71		o.c.z.	Cum.	6	"
Noon.	Ebb.			N.W. by N	N.E.	1			29.82	73	73	71		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2050 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 106 " 194 "

P. M.													
1	Ebb.	N. by E.	Calm	0	29.80	75	73	70	o.c.z.	Cum.	0	S.
2	"	"	N.N.	1	29.80	75	73	71	"	"	0	"
3	"	North	N.N.W.	1	29.79	75	73	71	"	"	0	"
4	"	N by W.	N.W. by N.	2	29.79	74	73	71	"	"	0	"
5	Flood	W.N.W.	S.W.	2	29.76	74	73	71	"	"	0	"
6	"	S. by W.	S.S.E.	1	29.76	74	74	71	"	Cir	3	"
7	"	S.S.W.	N.N.W.	1	29.76	74	74	71	b.c.z.	"	5	"
8	"	"	West	1	29.76	74	74	71	"	"	1	"
9	"	"	Calm	0	29.73	76	74	71	"	Cum.	5	"
10	"	"	S.S.E.	1	29.72	76	73	71	"	"	3	"
11	"	"	"	1	29.72	74	72	70	"	"	4	"
Mid.	"	N.S.W.	"	1	29.72	73	72	70	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday July 2nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.

Generally clear, with cum. strat. clouds, Bright starlight, Wet heavy dew. Moon rose at one o'clock. Light variable airs & calms. Riding to ebb. Slack water at end of watch.

A. F. Coundstone
Ensign U.S.N.

From 4 to 8 A.M.

Hazy all except first hour of watch. Flood tide. Strength of current at end of watch 1.2 knots. Recd. on board, and issued to crew 118¾ lbs fresh beef, 118¾ lbs fresh vegetables & 95 lbs. fresh bread.

A. F. Coundstone
Ensign U.S.N.

From 8 A.M. to Meridian

Overcast & hazy. Calm. Light airs & breeze from North to N.E. at 9.30 went to general quarters. Examined magazine & shell-room flood cocks, dry gun-cotton & electrical apparatus. Found all in good condition Carried one dirigo rowlocks away while boat was coming alongside. Juniata Made signal numeral 8 at 9:30. A. Tortell (C.S.) absent without leave. Recd. an official visit from Captain Nesham R.N. Comdg. H.B.M.S. Satellite. Ebb Made at 11.30.

W. B. Hoggatt
Ensign U.S.N.

Meridian to 4 P.M.

Generally overcast & cloudy. Bright & hot first hour. Clouds cum. Hazy. Calm 1st hour, light airs to breeze from N.W. to N.N.W. afterward. Riding to ebb. Greatest strength observed 0.7 knot. Draining distilling boilers & pumping bilge. Served out monthly money.

A. F. Coundstone
Ensign U.S.N.

From 4 to 8 P.M.

Generally cloudy & pleasant. Light airs & breeze from S.S.E. to N.N.W. at 5.30 swung to flood tide. At sunset sent down t.g. yds. and masts.

W. B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight.

Partly clear with cum. clouds. Hazy. Calm first hour. light airs from S.S.E. afterward. Riding to flood. Slack water at end of watch.

A. F. Coundstone.
Ensign U.S.N.

Examined and found to be correct.

T. B. Calloway
Lieut. & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Bluemilps Norea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N by E.	N.N.W.	1			29.72	73	71	69		b.c.	Cir-Cum.	7	S.
2	"			"	"	1			29.72	73	71	69		"	"	5	"
3	"			"	"	1			29.73	73	72	70		"	"	5	"
4	"			"	"	1			29.72	73	71	70		"	Cir Cum & Strat.	6	"
5	"			North.	Calm	0			29.73	73	71	69		"	"	5	"
6	Flood.			South	N E.	1			29.72	72	72	70		"	"	7	"
7	"			"	S by W.	1			29.72	73	72	70		"	"	7	"
8	"			S.S.W.	Calm	0			29.72	73	73	71		"	"	7	"
9	"			"	"	0			29.72	73	73	70		b.o.z.	Strat.	9	"
10	"			"	"	0			29.72	75	74 72			"	"	8	"
11	"			"	S.S.W.	1			29.71	75	74	71		"	"	7	"
Noon.	"			S.W. by S.	S.W.	1			29.71	75	74	71		"	Cir Cum & Strat.	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1400 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 105 " 2034 "

P. M.													
1	Flood	N by N	West.	2	29.71	75	74	71	b.o.z.	Cir Cum & Strat.	6	S.
2	Ebb.	North.	"	2	29.71	75	75	71	"	Cir. Cum.	7	"
3	"	"	N. by W.	3	29.70	74	73	71	"	"	5	"
4	"	N by W.	"	3	29.70	75	74	71	"	"	5	"
5	"	N.W. by N.	N.N.W.	2	29.71	76	75	70	"	"	4	"
6	"	W.S.W.	"	1	29.71	76	74	70	"	"	3	"
7	Flood.	S.S.W.	Calm	0	29.69	75	74	71	"	"	2	"
8	"	"	"	0	29.69	75	74	71	"	"	2	"
9	"	"	South	1	29.72	76	73	71	"	"	2	"
10	"	"	"	2	29 72	75	73	71	o.c.	Cumd & Nim	0	"
11	"	"	"	1	29 73	74	72	71	b.c.l.	"	2	"
Mid.	"	"	"	1	29 73	73	72	71	"	"	2	"

under the command of Commander F. F. Jewell, U. S. Navy,

Tuesday July 3d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Fair & pleasant. Light airs from N. N. W.
Ebb tide.

C. Craig
Naval Cadet U. S. N.

From 4 to 8 A. M.
Fair & pleasant. Calm & light airs from N. E. by E. & E. by N. At 7.30 made dress signal Geog. 755. Flood made at 5.45. Recd. for issue in pay dept. 96 lbs fresh bread. At 7:45 sent up t. g. masts & yards. Japanese gunboat left the harbor at 4:30.

W. B. Hoggatt
Ensign U. S. N.

From 8 to Meridian.
Clear, hazy & warm. Calms & light airs from S. S. W. & S. W. At 9:30 went to quarters & exercised - companies & Gun artillery. Powder div. single sticks. A Tortell (O.S.) absent without leave. Flood tide.

C. Craig
Naval Cadet U. S. N.

From Meridian to 4 P. M.
Generally clear & pleasant. Hazy over land lights, increasing to gentle breeze from West & W by N. Sent liberty party ashore. Sent our offices to inform the foreign men-of-war in the harbor that the U. S. Men-of-war would dress ship on Independence Day. At 1.30 turning to ebb tide.

F. J. Boomer
Ensign U. S. N.

From 4 to 8 P. M.
Cloudy, hazy & pleasant. Light airs to light breezes from W. N. W. first two hours, Calm last two. Slack water at 6:00 and turning to flood.

C. Craig
Naval Cadet U. S. N.

From 8 P. M. to Midnight.
Cloudy, with lightning to Eastward. Heavy cum & nimb clouds overhead. Light airs to light breezes from South. Riding to flood tide

F. J. Boomer
Ensign U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Chemulpo, Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S. by W.	South	1			29.72	71	71	69		O. C.	Cumn.	0.	S
2	"			South	"	2			29.71	72	71	69		"	"	"	"
3	Ebb.			N.E. by N	"	2			29.71	72	72	70		"	"	"	"
4	"			N.N.E.	"	2			29.71	72	72	70		"	"	"	"
5	"			N.E.	"	2			29.74	72	72	70		"	"	"	"
6	"			S.E.	"	2			29.74	72	71	69		"	"	"	"
7	Flood.			S.E by S.	S.S.E.	2			29.74	72	71	68		"	"	"	"
8	"			South	"	2			29.75	72	71	69		"	"	"	"
9	"			S. by W.	S. by W.	3			29.73	73	72	70		"	"	"	"
10	"			"	"	2			29.73	73	72	70		"	"	"	"
11	"			S.S.W.	S.S.W.	1			29.73	74	73	71		"	"	"	"
Noon.	"			"	"	1			29.73	76	75	72		"	"	"	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1050 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 105 " 1634 "

P. M.															
1	Flood.	S.W by S.	West.	1	29.72	76	76	73	G.C.Z.	Cir. Cum.	2	S
2	Ebb.	N.W by N.	"	1	29.70	77	76	72	"	"	2	"
3	"	N by E.	"	2	29.69	76	76	72	"	"	2	"
4	"	North	"	2	29.69	75	75	72	"	"	2	"
5	"	North	"	2	29.70	75	75	72	"	"	3	"
6	"	N.N.W.	"	2	29.70	80	75	72	"	"	5	"
7	"	West	"	2	29.72	76	75	72	"	"	6	"
8	Flood	S.W.	"	2	29.72	75	75	72	"	"	8	"
9	"	S.W by S.	W. by S.	2	29.72	74	74	72	"	"	7	"
10	"	S.S.W.	"	2	29.73	74	74	72	"	"	8	"
11	"	"	"	2	29.73	74	74	72	"	"	8	"
Mid.	"	"	Calm	0	29.73	73	73	71	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday July 4th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ed until 4 A. M.
Overcast Ed cloudy. Light breeze from South.
At 2:30 swung to ebb.

C. F. Preston
Lieut. U. S. N.

From 4 to 8 A. M.
Overcast Ed cloudy. Light breezes from South and S.S.E. At 5:00 dressed ship, rainbow fashion. Received on board 90 lbs bread Ed 118½ lbs beef Ed vegetables. Slack water at 6:00 Ed swung to flood.

C. S. Craig
Naval Cadet U. S. N.

From 8 A. M to Meridian
Overcast, cloudy Ed warm Light airs from S.W. Ed S.S.W. Flood tide. A regatta took place between the boats of the different men-of-war in the harbor. At noon the U.S.S. Pinta, U.S.S. Juniata, U.S.S. Omaha, U.S.S. Pensacola, H.I.R.M.S. Boshi, Ed H.I.J.M.S. Amaki fired a salute of 21 guns, in honor of Independence Day. At 9.20 Mustered at quarters; found A. Portell (OS) absent without leave.

F. J. Boomer
Ensign U. S. N.

From Meridian to 4 P. M.
Cloudy. Warm. Light airs to light breeze from West. At 2:00 swung to ebb. Placed G. Lopez (Qr. Gr.) under sentry & charge to await further investigation of Commander in the case of an assault on a Japanese sailor.

C. F. Preston
Lieut. U. S. N.

From 4 to 8 P. M.
Fair Ed warm. Light breeze from West. English Vice-Consul paid an official visit to this ship. Flood tide.

F. J. Boomer
Ensign U. S. N.

From 8 P. M to Midnight:
Clear Ed pleasant. Light breeze from S.W by S. until last hour, when calm. Flood tide.

C. F. Preston
Lieut. U. S. N.

Examined and found to be correct.

C. C. Galloway
Lieut Ed Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo, Corea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood.			S.S.W.	N.N.W.	1			29.73	74	73	71		b.c.w.	Stra.	9	S.
2	"			South.	Calm.	0			29.73	72	72	70		"	"	9	"
3	Ebb.			N.E. by N	"	0			29.73	72	72	70		"	cir. cum.	8	"
4	"			N. by E.	"	0			29.73	72	72	70		"	"	8	"
5	"			N.N.E.	N.E.	1			29.76	72	72	70		"	"	8	"
6	"			N by E.	"	1			29.78	72	72	70		"	"	7	"
7	"			North	Calm	0			29.80	73	73	71		b.c.z.	"	8	"
8	"			N.W. by N.	"	0			29.81	74	74	72		"	"	8	"
9	Flood			S. by W.	"	0			29.81	75	75	72		"	"	7	"
10	"			S.S.W.	S.W.	1			29.82	76	75	72		"	"	3	"
11	"			"	"	1			29.82	77	76	73		"	"	7	"
Noon.	"			"	"	2			29.82	77	77	74		"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 700 "

Coal consumed during the preceding 24 hours, tons 1840 lbs.

Coal remaining on hand at Noon, 102 " 2034 "

P. M.												
1	Flood	S.W. by S.	W. by S.	3	29.82	76	76	73	b.c.z.	cir. cum.	7	S.
2	"	S.W.	S.W. by W.	3	29.82	76	76	73	"	"	7	"
3	"	W. by N.	W by N.	3	29.82	77	77	73	"	"	7	"
4	Ebb.	North	"	3	29.80	78	77	73	"	"	7	"
5	"	"	N.N.W.	3	29.80	79	77	73	"	"	6	"
6	"	N by W.	N.W.	3	29.82	78	78	73	"	"	4	"
7	"	W by S.	"	3	29.82	77	77	73	"	"	3	"
8	"	S by W.	"	2	29.86	77	76	73	"	"	4	"
9	Flood.	"	Calm	0	29.87	77	77	74	"	"	5	"
10	"	"	"	0	29.87	77	77	74	"	"	8	"
11	"	"	South	1	29.87	77	77	74	"	"	8	"
Mid.	"	S.S.W.	"	1	29.88	76	76	72	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday July 5th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear and pleasant. Mod. dew fall. Calm, and light airs from W.N.W. Swung to ebb at 2.30

W.B. Hoggatt
Ensign U. S. N.

From 4 to 8 A M.
Clear and pleasant. Warm. Light airs from N.E. first half; calm last half. At 8:00 loosed sail to a bowline. Recd in Pay. Septs. for issue to crew, 118¾ lbs. each fresh beef and vegetables and 95 lbs bread. Riding to ebb. Slack water at end of watch.

J. J. Woodward
Ensign U. S. N.

From 8 A. M. to Meridian
Generally clear and warm. Calm first hours, then light airs to light breeze from S. W. At 8:30 swung to flood. Strength of flood at close 1.4 Knots. At 9.30 inspected at quarters. A Tortell O.S. absent without leave. Exercised 1st Division at single sticks, Powder, Engineers and Navigators Divs at pistols, Marines at Infantry. At 10:00 furled sail, bent royals and flying jib, then exercised at sail drill. Made to "Juniata" the following signals: 4826, 5520, 5961, 5966, 5520, 5955, 4826.

A. F. Dewitt
Lieut U. S. N.

Meridian to 4 P. M.
Generally clear and pleasant. Hazy. Gentle breeze from S.W by W. to W. by N. At 3.30 swung to ebb. The German steamer Deutschland and Chinese steamer Wang-chi came in. Juniata moored ship.

W.B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.
Fair and warm. Gentle breeze from N. W. and W.N.W., Ebb tide. Strength of tide at 7.00 .8 Knot. At sundown sent down topgt and royal yards, and unbent royals and flying jib. Made to Juniata, signal 6068

A. F. Dewitt
Lieut U. S. N.

From 8 P. M. to Midnight:
Generally clear, hazy and pleasant. Calm, and light airs from South. Swung to flood at 8:30. Strength of current at 10:30, 1.2 Knots

W.B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

E. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo, Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1															Cis		
2	Flood			S. by W.	Calm	0			29.88	74	74	71		b.c.z.	Cum.	8	S
3	"			"	S. by W.	4			29.90	74	73	70		"	"	8	"
4	"			S. by E.	S.S.E.	4			29.90	74	73	70		"	"	7	"
5	Ebb.			E.S.E.	S.E.	3			29.91	73	73	70		"	"	6	"
6	"			N.E. by N.	"	3			29.91	73	73	69		"	"	4	"
7	"			N.E.	"	3			29.93	73	73	68		b.c.	"	7	"
8	"			"	"	3			29.95	73	73	68		"	"	7	"
9	"			E by E.	"	3			29.96	74	74	69		"	"	8	"
10	Flood			"	"	3			30.00	76	74	69		"	"	8	"
11	"			S by W.	"	2			30.01	77	75	70		b.c.z.	"	8	"
Noon.	"			"	S.S.E	1			30.00	78	77	71		"	"	8	"
	"			S.S.W.	"	1			29.99	77	76	71		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water [illegible] during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 350 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 104 " 1634 "

P. M.												
1												
2	Flood.	S.S.W.	S.W.	2	29.97	77	76	71	b.c.z.	cir. cum.	7	8.
3	"	"	"	2	29.95	78	76	72	"	"	7	"
4	"	"	"	1	29.94	78	76	72	"	"	6	"
5	Ebb.	W. by S.	"	1	29.92	79	77	73	"	"	6	"
6	"	North	West	3	29.90	76	75	72	"	cir cum strat.	6	"
7	"	"	"	3	29.90	78	75	72	"	"	6	"
8	"	N by W.	"	2	29.91	77	75	72	"	"	6	"
9	"	N.N.W.	"	2	29.94	76	75	72	"	"	8	"
10	"	S. by E	"	2	29.96	76	73	72	"	"	8	"
11	Flood	S.S.W.	"	1	29.98	75	75	72	"	"	8	"
Mid.	"	S. by W	S.S.W.	1	29.98	75	75	72	"	"	7	"
	"	S.S.W.	"	1	29.98	75	75	72	"	"	7	"

under the command of Commander T. F. Jewell U S Navy
, U. S. Navy,

Friday July 6th , 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ed until 4 A M
Fair Ed pleasant. Calm, Ed light airs to moderate breezes from S by W, S.S.E Ed S.E., Moon rose at 2:30. Drift of tide at 7:00; 0.6 Knot Slack water between 3 Ed 4 Ed Swung to ebb.

C.S. Craig
Naval Cadet U.S.N.

From 4 to 8 A.M. Clear Ed pleasant. Gentle breeze from S.E. Ebb tide. At 7:45 made signal 6144 to Juniata. Crossed topt yards.

C.T. Dennis
Lieut U.S.N.

From 8 A M to Meridian:- Generally clear, hazy. Light airs to gentle breeze from S.E Ed S.S.E. At 9:10 beat to fire quarters. A. Portell (os) absent without leave. After fire quarters, exercised 1st Div. with single sticks, 2nd Div. with rifles Ed Powder Ed Torpedo Divs. at stations. Flood made at 8:30 Strength of current, at 11.30, 2 Knots

W.B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M. Clear, hazy Ed warm. Light airs to light breezes from S.W. At 1.00 started fires in nos. 1 Ed 3 boilers. Condemned by survey 15 lbs pickles Ed threw them overboard. By order of Commanding Officer, placed Geo Cope (Dr. Sr.) in confinement in double irons for 10 days, for assault Ed reduced Joseph Cohles (P.M.) to 4th class, for disorderly conduct and using foul language on shore while on liberty. Recd. official visit from Senior Cadet man-of-war informing Comdg Officer when they were to sail, Ed returning usual courtesies. A. Portell (os) returned from liberty, 116 hours over time. Flood tide until 3:15 when slack water

C.S. Craig
Naval Cadet U.S.N.

From 4 P.M to 8 P.M. Generally clear Ed pleasant. Light to gentle breeze from West. By order of Comdg Officer confined A. Portell (os) in double irons for ten days for disobedience of orders. At 7:45 strength of ebb 4 Knots. Began distilling at 6:45

W.B. Hoggatt
Ensign U.S.N.

From 8 P.M to Midnight: Fair Ed pleasant; hazy. Light airs to light breezes from West Ed S.S.W. Slack water at 9:00 Ed swung to flood. Drift of tide at end of watch 1.8 Knots

C.S. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

R.G. Galloway
Lieut Ed Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Chemulpo, Korea:

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood.			S.S.W.	S.S.W.	1			29.95	74	73	70		b.c.z.	Cir. Cum.	6	S.
2	"			S by W	"	1			29.94	73	72	70		"	"	6	"
3	"			"	"	1			29.94	73	71	70		"	"	6	"
4	"			South	"	1			29.94	73	71	70		"	"	6	"
5	Ebb.			N.E.	"	1			29.94	73	72	70		"	Cir Cum Strs.	6	"
6	"			N.N.E.	"	2			29.93	74	72	70		"	"	7	"
7	"			North	"	2			29.93	75	74	72		"	"	7	"
8	"			"	"	2			29.94	75	74	73		"	"	7	"
9	"			N.W.	W.S.W.	1			29.95	75	74	72		"	"	6	"
10	Flood.			S. by W.	"	1			29.95	76	75	73		"	"	5	"
11	"			S.S.W.	"	1			29.94	77	76	73		"	"	5	"
Noon.	"			"	"	1			29.95	77	76	73		"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by D. R. 36° 52' " N.
- Longitude by D. R. 126° 05' 30" E.

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1000 "

Water remaining on hand fit for use at Noon, 1000 "

Coal consumed during the preceding 24 hours, 2 tons 1410 lbs.

Coal remaining on hand at Noon, 102 " 224 "

P. M.																	
1	Flood.			S. S. W.	W.S.W.	1			29.92	78	79	74		b.c.z.	Cir Cum Strat	6	S.
2	"			"	"	1			29.90	79	79	73		"	"	6	"
3	7	0	5.0	S.W 1/2 S.	"	2			29.89	75	77	69	64	"	"	4	"
4	5 / 8 / 0 / 7	4.0 / 4.8 / 5.6		S.W. by W. 1/2 W. / S.W. by W. S.W. by S.	W by W	2			29.87	73	73	68	64	"	"	6	"
5	6	8	14.3	Hauled down chase Daylight Black Rock 2 miles N.E.	S. W.	1			29.84	74	71	68	63	"	"	4	"
6	6	8	21.1	S. W	"	2			29.81	78	71	67	63	"	"	5	"
7	6	7	27.8	S. W 1/2 S.	S S W.	3			29.80	72	69	66	62	o.c.d.	Cum. Nim.	0	L.S.
8	5 / 5	0 / 4	28.8 / 34.2	S.S.W. 1/4 W.	South	3			29.79	71	69	67	62	"	"	0	"
9	5	9	40.1	"	"	3			29.79	70	69	67	61	o.c.N.	"	0	M.
10	2 / 2	6 / 1	42.7 / 44.8	S.S.W. 3/4 W.	"	3			29.78	69	69	67	62	o.c.d.	"	0	"
11	1 / 3	0 / 8	45.8 / 49.6	S by W 1/4 W	S by E.	3			29.77	70	69	67	63	oc.	"	0	"
Mid.	4	4	54.0	"	"	3			29.74	70	69	68	63	oc N	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday July 7th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A M.

Fair & hazy. Light airs from S. S. W. Flood tide. Strength at 2:00, 1.2 knots, distilling

F. J. Soomes
Ensign U.S.N.

From 4 to 8 A. M.

Generally clear & pleasant. Light airs & breeze from SSW Lost overboard, pump brake of fore channel pump. Cleaned bilges. at 7.30, drift of ebb tide 1.2 knots. Distilling. At 8: started fires in boilers 2, 4, 5, 7, 6, & 8.

W. B. Hoggatt
Ensign U S N

From 8 A M to Meridian:

Fair, warm & hazy. Light airs from W.S.W. At 10:00 A.S. Owari Maru came to anchor in harbor. Took off mooring swivel & hove up stbd. anchor & hove in to 15 fms. on port chain. Making preparation for sea. Sent officer to Russian man-of-war to offer usual courtesies before sailing. Slack water at 9.00, turning to flood. Distilling The Chinese men-of-war got under way and left the harbor.

C. S. Craig
Naval Cadet U.S.N.

Meridian to 4 P. M.

Fair & pleasant. Hazy overland. Light airs from W by W shifting to light breeze from S. W. by S. At 1.45 called all hands up anchor & got underway. Ships draft 13' 7" forward & 15' 9" aft. Standing down narrows leading to Chemulpo, Navigator at conn, At 3.15 hauled fires in 2 & 4 boilers. distilling

F. J. Soomes
Ensign U.S.N.

From 4 to 6 P. M.

Generally cloudy. Pleasant. Light airs to light breeze from S. W. standing down past White Rock & Nauen Id. At end of watch heading S. W. with Nauen Id. bearing N.E. by E. & Pungdo Id. E by N. Under steam alone. Distilling. Shifted main topsail.

A. F. Fechteler
Lieut U. S. N.

From 6 to 8 P. M.

Overcast, hazy, with very light occasional rain. Gentle breeze from Southward S.W. standing to sea along coast along Chasseriau Bank. the Navigator at the conn. Distilling. Long swell from SW. Ship pitching gently.

W. B. Hoggatt
Ensign U.S.N.

From 8 P. M to Midnight.

Overcast, cloudy & rainy. Gentle breezes from South & S by E. At 9:30 changed course to S S W ¾ W. P.L. 42.7 At 10:10 changed course to S. by W ¼ W pat. log 45.8. Baker Island bearing (p.c.) S by E ¼ E. Barometer falling. Moderate sea. Distilling. Average steam pressure lbs, average revolutions.

C. S. Craig
Naval Cadet U S N

Examined and found to be correct.

T. P. Galloway
Lieut USN Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Chemulpo Korea to Vladivostock Siberia

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	2	54.0 58.2	S. by W. ½ W.	S by E.	4			29.73	74	71	69	63	0.C.d.	Cir. nimb.	0	M
2	4	0	62.2	"	"	5			29.70	74	72	71	63	0.C.dfg.	"	0	"
3	3	4	65.6	"	"	6			29.68	74	72	71	63	"	"	0	"
4	2	6	67.0	S. S. W.	South.	6			29.68	74	73	71	63	"	"	0	"
5	1	4	68.4 69.5	"	"	5-6			29.63	74	72	71	67	0.C.fg.	Cum nimb.	0	"
6	0	5	70.0	South	"	5-6	½		29.61	74	72	71	70	"	"	0	"
7	3	0	73.3	S. S. W.	S. S. W.	5-6	½		29.61	74	73	72	70	"	"	0	"
8	3	5	74.5	W. S. W. ½ W.	"	5-6	½		29.61	74	73	72	70	"	"	0	"
9	2	6	77.1	Lying to. heading West	"	4-5	½		29.62	74	73	72	70	"	"	0	"
10	0	5		W. ¾ S.	S. by W.	4-6	½		29.62	74	73	72	70	"	"	0	M L
11				West	S. S. W.	4-6	½		29.61	74	73	72	70	"	"	0	"
Noon.				"	"	4-6	½		29.60	74	73	72	71	"	"	0	"
				"	"	4	½		29.65	75	73	71	71	0.C.	"	0	"

Course and distance made good since preceding noon by observations, Various (Constituting Lying to) knots, 89.5 tenths.

Position at Noon:
- Latitude by D. R. 36 ° 16 ' "
- Longitude by D. R. 125 ° 44 ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by D. R. 36 ° 13 ' " N.
- Longitude by D. R. 125 ° 45 ' " E.

Position at 8 P. M.:
- Latitude by D. R. 36 ° 13 ' " N
- Longitude by D. R. 125 ° 47 ' " E

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1950 "

Water remaining on hand at for use at Noon, 2600 "

Coal consumed during the preceding 24 hours, 11 tons 2040 lbs.

Coal remaining on hand at Noon, 90 " 424 "

P. M.														
1	0	5	West	S. S. W.	4-5	½	29.65	75	73	72	70	0.C.m.	Cum nim.	0 H
2	0	5	"	S. W.	4-5	½	29.66	75	72	71	69	"	"	0 "
3	0	5	"	"	4	½	29.66	75	72	71	66	"	"	0 "
4	0	2	82.7 South	"	4	½	29.66	74	72	71	66	"	"	0 "
5	3	2	85.9 "	"	4		29.66	75	73	71	67	"	"	0 M
6	4	4	90.3 "	"	4		29.66	75	73	71	68	"	"	0 "
7	4	0	94.3 "	S. S. W.	4		29.64	74	73	72	69	0.C.fg	"	d "
8	3	5	97.8 "	"	4		29.64	74	73	72	71	"	"	0 "
9	3	0	100.8 "	"	4		29.65	74	73	72	71	"	"	0 "
10	2	9	103.7 "	"	4		29.65	76	73	72	71	0.C.f.d.	"	0 "
11	3	1	106.8 "	"	4		29.67	76	73	72	71	"	"	0 "
Mid.	2	9	109.6 "	"	4		29.67	75	72	72	70	0.C.N.	"	0 "

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday July 8th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced until 4 A. M.

Overcast & cloudy, with drizzling rain. Mod. to stiff breeze from South increasing & shifting to fresh breeze from S. by E. Steaming course S. by W ¼ W. until 3:30 when changed to S.S.W. Mod. sea & swell from So. Ship pitching moderately. Steaming with 4 boilers Condensing. P.L. 67

T. J. Loomis
Ensign U.S.N.

From 4 to 8 A.M. - Overcast, cloudy - generally rainy. Squally winds from S.S.W. Mod. to fresh. at 4.34 changed course to South P.L. 69.5. at 5.30 set fore and aft sail except jib & f. jib. & headed W.S.W. ¾ W. P.L. 71.3. The jib split slightly while setting it. Shifted jibs - At 7.30 set double reefed main topsail, ~~banged~~ trimmed fires stopped engines, hauled in P.L. reading 82.5, & lay to on port tack under f. topmast staysail, M. trysail, spanker & double reefed M. topsail, heading about West.

C. S. Leehman
Lieut U.S.N.

From 8 AM to Meridian

Overcast & squally, with occasional heavy passing showers. first part. Squally. Mod. to fresh breeze from S by W. & S.S.W. Mod long sea. Wind & sea moderating towards end of watch. Set single reefed topsail, then took it in and furled it. Shook out one reef in M. topsail, set topsail, then took second reef. Took in spanker & M trysail & set M. trysail again. Ship lying to, rolling easily but deeply at times under double reefed M topsail, f. topmast staysail & M. trysail.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.

Overcast, cloudy, misty, almost rain at intervals. Moderate to fresh breezes from S.S.W & S.W. Lying to under double reefed main topsail, f. topmast staysail & main trysail, heading about West, until 3:30 when took in all sail, spread fires. At 3.55 changed course to South P.L. 82.5 Cone Isl. [illegible] bearing (p.c) N ¼ W. distant 9.5 miles. East Clifford Island bearing (p.c) N W. At 3.15 stopped distilling, tanks being full. Barometer steady Heavy sea. Ship rolling easily. At end of watch pat. log 82.7

C. E. Craig
Naval Cadet U.S.N.

From 4 to 6 P.M.

Overcast & cloudy. Mod. breeze from S.S.W. Mod. sea & swell from S.S.W. Ship pitching moderately. Steam in 4 boilers, no sail. at 4.15 hauled fires in boilers 1 & 3 P.L. 90.3

T. J. Loomis
Ensign U.S.N.

From 6 to 8 P.M.

Overcast & cloudy. Moderate breeze & mod. sea from S.S.W. Occasional drizzling rain. Under steam alone. Course South

C. F. Leehman
Lieut. U.S.N.

From 8 P.M to Midnight

Overcast & cloudy with occasional drizzling rain. Mod. breeze from S.S.W. Mod. sea from S.S.W. Under steam alone, in four boilers. Course South.

Examined and found to be correct.

W. B. Hoggatt
Ensign U.S.N.

R. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Chemulpo Korea to Vladivostok Siberia.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	6	12.7	South	S. S. W.	4-6			29.67	74	72	71	70	o.c.g.N.	Cum nim.	0	M.
2	3	3	15.5	"	"	4-6			29.67	74	72	71	70	"	"	0	"
3	3	4	18.9	"	"	4-5			29.67	74	72	71	70	"	"	0	"
4	4	5	23.4	"	"	4-5			29.68	74	72	71	70	"	"	0	"
5	3	8	27.2	"	"	4			29.68	74	72	71	69	o. c. N.	"	0	"
6	4	0	31.2	"	"	4			29.69	71	71	71	68	o. c. f.	"	0	"
7	4	9	36.1	"	S. by W.	4			29.71	72	71	70	68	"	"	0	"
8	5	5	41.6	"	"	2			29.72	72	71	70	68	o.c.d.f.	"	0	"
9	4	5	46.1	S. by W.	"	2-3			29.74	76	70	70	68	"	"	0	"
10	5	0	51.1	"	"	2-3			29.77	76	70	70	68	o.c.f.	"	0	"
11	4 5	0 6	55.1 55.7	S. W. S. W. by W.	"	2-3			29.77	75	70	70	70	"	"	0	"
Noon.	5	6	61.2	"	"	2-3			29.77	76	70	69	70	"	"	0	"

Course and distance made good since preceding noon by observations, S. 80 knots 2 tenths.

Position at Noon:
- Latitude by D. R. 35° 11' " N.
- Longitude by D. R. 125° 41' " E.
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by D.R. 35° 29' " N.
- Longitude by D.R. 125° 51' " E.

Position at 8 P. M.:
- Latitude by D.R. 34° 47' " N.
- Longitude by D.R. 124° 59' " E.

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 400 "

Water remaining on hand fit for use at Noon, 2550 "

Coal consumed during the preceding 24 hours, 10 tons 590 lbs.

Coal remaining on hand at Noon, 79 " 2074 "

P. M.																
1	5	1	66.3	S. W. by W.	S. by W.	2-3	29.77	72	70	69	70	o.c.f.	Cum nim.	0	M
2	5	8	72.1	"	"	3	29.77	71	70	69	71	"	"	0	"
3	5	7	77.8	"	"	3	29.77	71	70	69	71	"	"	0	"
4	5	7	83.5	"	S. W. by S.	3	29.77	72	71	70	71	"	"	0	"
5	4	1 3	84.8 89.1	"	S. W.	3	29.77	72	72	71	71	"	"	0	"
6	5	8	94.9	"	"	3	29.78	73	72	71	71	"	"	0	"
7	3	5	96.9 100.4	W. S. W.	"	3	29.79	75	72	71	71	"	"	0	"
8	5	8	6.1	"	S. W. by W.	3	29.81	75	72	71	71	"	"	0	"
9	5	4 5	11.5 15.6	"	S. S. W.	2	29.82	75	72	71	71	"	"	0	"
10	2	3	17.3	S. by W.	"	2	29.83	75	73	72	71	"	"	0	"
11	5	3	22.6	"	Calm	0	29.84	75	73	72	71	"	"	0	"
Mid.	5	4	28.0	"	"	0	29.84	75	73	72	71	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday July 9th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced until 4 A M

Overcast, cloudy, rainy & squally. Moderate to stiff breeze from S.S.W. heavy rain squalls. Ship on course, South. Moderate sea. Barom. steady. Pat. log at end of watch, 73.4

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 P. M.

Overcast & cloudy, with passing rain squalls second & third hours; drizzling rain remainder of watch. Foggy last hours. Mod. breeze from S.S.W first half & S.W, last half. Mod. sea & swell from S.W. Steaming course South. At 6:30 set fore & aft sail P. L. 41.6.

F. J. Fooming
Ensign U.S.N.

From 8 A. M to Meridian.

Overcast, cloudy & foggy. Rain part of the first hour. Foggy; generally very thick, but lifting slightly occasionally. Light to gentle breeze from S. by W. At 9.45 mustered at quarters & exercised 1st, 2nd & Powder divisions at stations. At 10.40 set fore & aft sail. At 10.50, fog lifted slightly when sighted an island bearing about S.E. At 8.00 Changed course to S. by W. P.L. 41.6, at 10.15 to S.W. P.L. 52.1, & at 10.50 to S.W by W. P.L. 57.9.

A. F. Fechteler
Lieut U.S.N.

From Meridian to 4 P. M

Overcast & foggy, with occasional rain. Gentle breeze from S. by W. to S.W by S. At 3.00 got a sounding in 25 fms. and at 4.00 in 25 fms. blk & white sand At 3.00 took in fore & aft sail. On course S.W by W. during watch. Under steam alone at end of watch Smooth sea.

W. W. Hoggatt
Ensign U. S. N

From 4 P. M to 6 P. M.

Overcast & foggy. Gentle breezes from S.W. At 4.00 changed course to S.W. pat. log 83.5. At 4.15 changed course to S.W by W. pat. log. 84.8. At 5.00 got sounding 36 fms. hard bottom. Under steam alone, on course S.W by W. At end of watch pat. log 94.9, smooth sea.

C. S. Craig
Naval Cadet U.S.N.

From 6 to 8 P. M.

Overcast with dense fog. Gentle breeze from S.W. & S.W by W. Smooth sea, ships steady. Steaming course, S.W by W. until 6.23, when changed to W S.W. At 6.30, 7.00 & 8.00 o'clock got following soundings respectively 38, 36 & 40 fms. mud & clay bottom P.L. 6.1

F. J. Fooming
Ensign U. S. N.

From 8 P. M to Midnight:

Foggy. Occasionally clear overhead. First half, light breeze from S & S.W. then calm. At 9.30 sounded in 50½ fms. mates, clay bottom. At 9.40 Changed course to S. by W. P.L. 15.6 Under steam alone.

A. F. Fechteler
Lieut U. S. N.

Examined and found to be correct.

T. L. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At sea on the passage from Chemulpo, Korea to Vladivostock, Siberia.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	0 4	5 8	28.5 33.3	S. by W. South.	S.S.W.	2			29.84	74	73	73	71	cum. nimb.	Cum.	0	S
2	5	8	39.1	"	"	2			29.84	74	73	73	71	b.of.	"	1	"
3	3 2	1 5	42.2 44.7	S.E. by E.	"	2			29.84	73	73	72	71	"	"	2	"
4	6	4	51.1	"	S. by W.	2			29.84	73	72	72	71	"	"	2	"
5	5 0	2 8	56.3 57.1	E.S.E. "	"	2			29.84	73	70	70	70	o.c.f.	"	0	"
6	5	0	62.1	"	"	2			29.86	76	69	69	67	"	"	0	"
7	5	8	67.9	"	"	2			29.87	73	69	68	67	"	"	0	"
8	6	4	74.5	"	S.S.E.	2			29.87	70	68	68	66	b.c.f.	"	0	"
9	6	2	80.7	"	South	3			29.89	69	67	66	63	"	"	1	"
10	6	7	87.4	"	"	3			29.89	69	67	66	63	"	"	1	"
11	7	9	90.3	"	S. by W.	3			29.89	70	68	67		"	"	3	"
Noon.				at anchor in fog.	"	3			29.89	71	69	68		o.c.f.	"	0	"

Course and distance made good since preceding noon by observations, Various (Coasting) 129 knots. 1 tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by D.R. N 34° 03' "
- Longitude by D.R. E 125° 25' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 10 tons 410 lbs.

Coal remaining on hand at Noon, 69 " 1664 "

P. M.												
	Ships Head.											
1	N. by E.	S. by W.	2	29.85	71	69	69	b.c.f.	Cum.	3	S
2	N by N.	"	2	29.85	72	70	70	"	"	2	"
3	N by E.	"	2	29.85	72	71	70	o.c.f.	Cum nims.	0	"
4	N.N.E.	S. by E.	3	29.85	71	70	69	b.c.f.	"	1	"
5	North	"	3	29.85	73	69	69	o.c.f.	"	0	"
6	N N W.	"	3	29.83	71	69	69	"	"	0	"
7	N by W.	"	3	29.84	71	68	67	"	"	0	"
8	N.N.E.	"	3	29.84	71	68	67	"	"	0	"
9	South	"	3	29.84	69	68	67	"	"	0	"
10	"	"	3	29.84	69	68	67	"	"	0	"
11	S.S.W.	S.S.W.	4	29.84	69	68	67	o.c.g.f.	"	0	"
Mid.	S W by W.	S.S.E	4	29.84	68	67	66	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday July 10th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Thick foggy weather. Light breeze from S. S. W. & S. by W. At 12.06 Changed course to South, & at 2.35 to S. E. by E. Under steam alone. Smooth sea.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.

Thick foggy weather. Towards end of watch, fog very low, blue sky overhead. Light breezes from S by W & S. S. E. At 4.55 changed course to E. S. E. Bat. Log 56.3 slowed down on account of fog. Must ahead fast again at 6:45. Took sounding at 6:55 [got sounding] 56 fms. broken shell. At 6.20 got another sounding, 30 fms. hard bottom At 6:30 set fore and aft sail. At end of watch, under steam & fore & aft sail, on course E. S. E. bat. log - 74.5 Smooth sea Barometer rising.

C. S. Craig
Naval Cadet U. S. N.

From 8 A M to Meridian -

Cloudy, with dense, heavy fog. Gentle breeze from South & S. by W. Steaming course E. S. E. with fore & aft sail. At 10.00 took sounding, 24 fms. sandy bottom. At 10.15 took in fore & aft sail. At 10.35 came to with 45 fms. chain on stbd. anchor in 15 fms. fwd. & 18 fms. aft.: sandy bottom. At 11.00 set of tide North drift 1.4 knots. At end of watch, heavy banked fires in four boilers. Bat log read when hauled in 90.3 Slack water at end of watch. Broke out stream anchor. Tested flood-cocks.

F. Jewell
Ensign U. S. N.

From Meridian to 4 P. M.

Cloudy, foggy. At end of watch dense fog. Light breeze from S. by W. until last hour, when gentle breeze from S. by E. Ebb tide setting to S. E. by E. first half, & S by W. 2nd half of watch. Strength at end of watch 2.5 knots.

A. F. Dennett
Lieut. U. S. N.

From 4 to 6 P. M.

Thick, foggy weather. Gentle breezes from S. by E. Veered to 60 fms. on stbd. chain. Strength of ebb at end of watch, 1.6 knots. Set S. by E.

W. B. Hoggatt
Ensign U. S. N.

From 6 to 8 P. M.

Dense fog all watch. Gentle breezes from S by E. Ebb tide; drift at 7:00 1.6 knots, at 8:00 0.6 knot, set S. by E.

C. S. Craig
Naval Cadet U. S. N.

From 8 P. M. to Midnight:

Overcast with heavy fog. Gentle breeze from S. by E. first half, increasing & shifting to mod. breeze from S. S. W. & E. S. E. last half. Flood tide, greatest strength 1.6 knots. Set N. by W.

F. Jewell
Ensign U. S. N.

Examined and found to be correct.

A. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At sea on the passage from Chemulpo, Korea to Vladivostok Siberia

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				E. N. E.	S. S. E.	4			29.84	70	68	68		o.c.g.f.	Cum Nim.	0	S.
2				"	"	4			29.83	72	68	68		"	"	0	"
3				N. N. W.	S. by W.	4			29.81	74	69	68		"	"	0	"
4				E. N. E.	"	4			29.81	73	70	69		"	"	0	"
5				North	S. S. W.	4			29.82	73	70	69		b.c.f.	"	3	"
6				N. N. W.	"	4			29.83	73	70	69		"	"	2	"
7				N by W.	"	4			29.84	73	70	69		o.c.f.	"	0	"
8				"	"	4			29.84	73	71	70		"	"	0	"
9				N. W.	South	4			29.84	72	70	70	61	"	"	0	"
10				South	"	4			29.83	71	69	69	61	"	"	0	S. S.
11				"	"	4			29.83	71	69	68	62	"	"	0	"
Noon.				E. S. E.	"	4			29.84	71	69	68	62	"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ☉ ° ′ ″

Longitude by chronometer from Forenoon Observations of ☉ ° ′ ″

Position at 8 a. m.: Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M.: Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ☉ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ☉ observed at " ° ′ ″

Variation of the Compass by Azimuth ☉ observed at " ° ′ ″

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1850 "

Coal consumed during the preceding 24 hours, 1 tons 1940 lbs.

Coal remaining on hand at Noon, 67 " 1964 "

P. M.											
1	S. S. W.	South	3	29.84	72	68	68	62	o.c.f.	Cum & Nim.	0	S. S.
2	N. E. by N.	"	3	29.83	74	69	69	61	"	"	0	"
3	N by E.	"	3	29.83	73	70	70	61	"	"	0	"
4	"	S. S. W.	3	29.83	73	71	70	61	"	"	0	"
5	N. by W.	"	3-4	29.81	73	71	70	61	"	"	0	"
6	N. N. W.	"	3-4	29.81	73	71	69	62	"	"	0	"
7	N. by W.	S. by W.	4	29.80	71	69	69	62	"	"	0	"
8	S. by W.	"	4	29.81	71	69	70	62	"	"	0	"
9	South	S. S. E.	4	29.85	70	70	70	60	"	"	0	"
10	E. S. E.	"	4	29.85	71	70	68	61	"	"	0	"
11	"	South	4	29.85	70	68	68	61	"	"	0	"
Mid.	"	S. S. W.	4-5	29.82	70	68	68	61	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday July 11th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Cloudy - foggy. Moderate breeze from S.S.E. first half of watch, & from S. by W. last half.

C. F. Preston
Lieut U.S.N

From 4 to 8 A.M.
Cloudy & foggy. Moderate breeze from S.S.W. Strength of ebb at end of watch 2.4 knots, set South.

W. B. Hoggatt
Ensign U.S.N

From 8 A.M. to Meridian
Cloudy & foggy. Moderate breeze from South. Fog lifting at intervals & got bearings of land. Craig Harriet group S.W. to S.S.W. Skylvic group N.78E to S.S.E½E through East. At 9:40 went to quarters for inspection, & exercised 1st div. at single sticks, Powder & 2nd divs. instruction. At 10:15 exercised at fire quarters, all divisions reported ready in 1 min. 5 sec. Secured in 2 min. Slack water at 9:00, & swung to flood; drift of tide at end of watch 1.0 knot, set north.

C. Craig.
Naval Cadet U.S.N

From Meridian to 4 P.M.
Overcast & foggy. Gentle breeze from South. Mod. sea. Slack water 4 1.15; ebb tide remainder of watch. Greatest strength of tide, 2.1 knots; set S. by W. Temp. water 61°

F. J. Boone
Ensign U.S.N

From 4 to 6 P.M.
Overcast & cloudy. Thick fog. Gentle to moderate breeze from S.S.W. Ebb tide, setting S.S.E. at end of watch, strength 2.6 knots.

C. F. Preston
Lieut U.S.N.

From 6 to 8 P.M.
Thick foggy weather. Moderate breeze from S. by W. At end of watch, tide set S. by E. 1.7 knots.

W. B. Hoggatt
Ensign U.S.N

From 8 P.M. to Midnight.
Thick foggy weather. Moderate to fresh breeze from S.S.E., South & S.S.W. increasing towards end of watch. Slack water at 9:00, swung to flood. Drift at end of watch 2.0 knots. Set N × W.

C. Craig.
Naval Cadet U.S.N

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At sea on the passage from Chemulpo Korea to Vladivostok Siberia

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S. by W.	S.S.W.	4-5			29.82	71	71	70	61	b.c.f.	cum. nim.	1	M
2				N.E. by N	"	5-6			29.80	71	71	70	61	b.c.fg.	"	1	"
3				N W	"	5-6			29.79	71	71	70	61	"	"	1	"
4				North	"	5			29.80	71	71	70	61	"	"	1	"
5				"	"	5			29.81	72	72	71	61	o.c.g.f.	"	6	"
6				N by W.	S.W. by S.	4			29.84	72	71	71	59	b.o.g.f.	"	2	"
7	1	5	91.9	N by W.	"	4			29.84	72	71	71	59	"	"	2	"
8	6	2	98.1	S.E.	"	4			29.85	71	70	69	62	"	"	1	"
9	6	5	4.6	E.S.E½E.	S. by W.	4			29.86	72	71	71	65	f.c.f.	"	1	"
10	8	0	12.6	"	"	4			29.86	74	73	72	70	"	"	2	"
11	9	0	21.6	E.S.E¾E.	"	4			29.86	74	73	72	66	"	Cum	5	"
Noon.	8	7	30.3	"	"	4			29.86	73	72	72	68	"	"	3	"

Course and distance made good since preceding noon by observations, Various (Coasting) 40 knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by ~~observation of ⊙~~ Bearings N34 ° 16 ' "
- Longitude ~~by chronometer from Forenoon Observations of ⊙~~ Bearings E125 ° 53 ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by Bearings 34 ° 10 ' "
- Longitude by Bearings 127 ° 36 ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 850 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1500 "

Coal consumed during the preceding 24 hours, 4 tons 980 lbs.

Coal remaining on hand at Noon, 63 " 984 "

P. M.																
1	3 5	4 2	33.7 38.9	E.S.E.¾E. E½N.	S. W.	3-4	29.84	74	73	72	60	b.c.	Cum.	4	S.
2	8	8	47.2	"	"	3-4	29.82	74	73	72	67	"	"	6	"
3	7	8	55.0	"	"	2	29.81	74	73	72	70	"	"	7	"
4	6	7	61.7	"	Variable	2	29.82	75	74	73	68	"	"	4	"
5	6	6	68.3	E. by N	S. W.	1	29.82	76	75	73	69	"	"	4	"
6	6	6	74.9	"	South	1	29.83	75	74	23	69	b.c.	Cum Nimb	1	"
7	6	7	81.6	E.N.E.	S. W	2	29.85	75	73	72	69	o.c.f.	"	0	"
8	6	8	88.4	E½N	"	2-3	29.85	75	73	72	69	"	"	0	"
9	6	8	95.2	"	"	2-3	29.87	74	74	73	69	"	"	0	"
10	6	8	102.	"	"	3	29.86	74	73	72	70	"	"	0	"
11	6	5	8.5	"	"	3	29.85	74	73	72	70	o.c.d.f.	"	0	"
Mid.	7	9	16.4	"	"	4	29.84	74	73	72	72	o.c.f.	"	0	"
														0	

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday July 12th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M

Cloudy; stars showing at times overhead. Foggy. Mod. to fresh breeze from S.S.W. Squally. Slack water at 1:08. Ebb tide remainder of watch; greatest strength 2.5, set S.S.W.

F. J. Goodwin
Ensign U.S.N.

From 4 to 8 A. M

Generally cloudy. First hours dense fog, then fog lifted partially. Stiff breeze from S.S.W. hauling to S.W by S. and moderating during watch. Ebb tide. Strength at 5:00 3.0 Knots. At 6:40 got under way & steamed to Wd. At 6:45 put over P.L. reading 90.4. At 6:55 set fore & aft sail. At end of watch, heading S.E. with Mt Pumiack bearing N.E. dist. about ¾ mile.

A. T. Dennis
Lieut. U.S.N.

From 8 A M to Meridian:

S. Generally cloudy, with fog about land. Mod. breeze from S. by W. At 8:15 set foresail. At 9:00 set topsails & at 9:27 called all hands, crossed t.g. & royal yards & set the sails. At 8:55 Changed course to E.S.E½E. P.L. 4.6; at 10:30 to E.S.E¾E P.L. 14.6 & at 10:45 to E.S.E.¾E. P.L. 18.6. Land in sight on both hands during watch. At end of watch on course E.S.E.¾E. under steam & plain sails to royals. At noon Mainamewon bore (p.c.) S.E¼E. & Bott Rocks, of Bate group S.W¼S.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P. M.

Fair & hazy, with fog banks to Nd. and fog around land. Gentle to moderate breezes from S.W. until 3:00 when wind came out ahead and was variable remainder of watch. At 12:23 changed course to E½N P.L. 33.7. At 2:55 took in main Trysail & spankers. At 3:00 took in and furled all sail. At end of watch under steam alone on course E½N pat. log 61.7 knots.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 6 P. M.

Cloudy. Heavy fog banks around horizon. Light airs from S.W & South. At 4:20 set fore & aft sail, At 6:00 took in fore & aft sail. At 4:00 changed course from E½N. to E. by N. Steaming with four boilers.

F. J. Goodwin
Ensign U.S.N.

From 6 to 8 P. M.

Light to gentle breeze from S.W. At 6:45 a thick fog set in. At 7:00 it lifted when sighted Walker Id. At 6:25 set fore & aft sail. At 6:35 changed course to E.N.E½E. P.L. 78.4, at 6:55 to E.N.E. P.L. 81.1. At 7:15 Walker Id. bore S.S.W¼W. Powell Rocks S.S.E.¾E. Changed course to E½N. P.L. 83.9 At end of watch slightly foggy.

A. T. Dennis
Lieut U.S.N.

From 8 P. M. to Midnight:

Overcast & foggy, with light drizzling rain 3d hours. Light to mod. breeze from S.W. At 10:10 set foresail & at 10:50 made plain sail to royals. At end of watch on course E½N under steam & plain sail to royals. Smooth sea.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

T. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At sea on the passage from Chemulpo, Korea to Vladivostok, Siberia.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	8	0	24.4	E. ½ N.	S.W. by S.	4			29.84	74	74	73	71	o.c.f.	cum.	0	S
2	8	3	32.7	"	"	4			29.84	75	74	73	71	o.c.	"	0	"
3	7	7	40.4	"	"	4			29.84	74	74	73	71	"	"	0	"
4	7	5	47.9	"	S.W.	4			29.85	74	74	73	71	o.c.m.	"	0	"
5	6	7	54.6	N.E.	"	2			29.88	76	74	73	71	o.c.f.	"	0	"
6	5	4	60.0	"	"	2			29.90	76	74	73	71	"	"	0	"
7	6	5	66.5	"	"	2			29.90	76	74	74	71	"	"	0	"
8	6	6	73.1	"	"	2			29.90	76	74	74	71	"	"	0	"
9	7	1	80.2	"	"	3			29.90	76	74	74	72	"	"	0	"
10	7	6	87.6	"	"	3			29.90	76	74	74	72	"	"	0	"
11	7	4	95.0	"	"	3			29.90	76	75	74	72	c.c.f.	"	1	"
Noon.	5	6	100.6	"	"	3			29.90	76	76	75	72	"	"	1	"

Course and distance made good since preceding noon by observations, Various (Coasting) 170 knots. 3 tenths.

Position at Noon:
- Latitude by D. R. — N 34 ° 56 ' "
- Longitude by D. R. — E 129 ° 32 "
- Latitude by observations of ⊙ — ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — ° ' "

Position at 8 a. m.:
- Latitude by D.R. — N 34 ° 36 ' " N.
- Longitude by D.R. — E 129 ° 11 ' " E.

Position at 8 P. M.:
- Latitude by D.R. — N 35 ° 37 ' "
- Longitude by D.R. — E 130 ° 22 ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1150 "

Coal consumed during the preceding 24 hours, 10 tons 410 lbs.

Coal remaining on hand at Noon, 53 " 574 "

P. M.																	
1	7	1	7.7	N.E.	S.W.	4			29.87	78	77	76	72	b.c.f.	cum.	7	S.
2	7	9	15.6	"	"	4			29.85	78	77	76	72	b.c.	"	3	"
3	7	9	23.4	"	S.W. by W.	4			29.85	78	77	76	72	"	cum. strat.	8	"
4	7	0	30.4	"	~~N.W.~~ W.	3			29.87	78	77	75	72	"	"	8	"
5	6	3	36.7	"	N.N.E.	2			29.88	78	75	73	72	o.c.	"	0	"
6	6	1	42.8	"	"	1			29.87	77	74	73	72	o.c.f.	"	0	"
7	6	4	48.2	"	S.W.	1			29.86	77	74	73	70	"	"	0	"
8	6	5	55.7	North	West	1			29.87	77	74	73	69	"	"	0	"
9	7	2	62.9	N. ½ E.	S.W.	1			29.86	75	74	72	68	b.c.f.	"	7	"
10	7	2	70.1	"	"	1			29.86	73	72	71	67	"	Cum.	4	"
11	7	1	77.2	"	"	1			29.86	72	71	69	66	"	"	2	"
Mid.	7	0	84.7	"	"	1			29.85	72	70	69	66	o.c.f.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday July 13th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M

Overcast & cloudy all watch. Light fog first hours. Misty last hour. Mod. breeze from S.W by S. & S.W. Ships on course E. by N. under steam & all plain sail to royals, except main sail & main trysail. At end of watch stat. Log 47.9

C. P. Craig
Naval Cadet U. S. N.

From 4 to 8 A. M.

Overcast, cloudy & foggy. Light breeze from S.W. At 4.30 changed course from E. by N. to E.N.E. & at 4.43 to N.E. At 4.45 took in all sail & slowed down engines. Steaming with four boilers. P.L. 73.1.

F. J. Boorman
Ensign U. S. N.

From 8 A M to Meridian:

Overcast & cloudy. Foggy. Fog lifting occasionally & at times setting in again very thick. Gentle breeze from S.W. At 8:00 set all square sail. Sounded at 10:00 in 86 fms. & at 11.00 in 79 fms. mates. At 9:25 exercised at fire quarters At 9:30 inspected at quarters & exercised 1st Div. at single sticks, 2nd Rifles, Powder & Nav. at Pistols. Course N.E.

A. T. Dechman
Lieut U. S. N.

Meridian to 4 P. M.

Foggy first hour, clear & warm remainder of watch. Mod. to gentle breeze from S.W. & S.W. by W. Lookout on foretopsail yard reported land on port beam At 2:00, could not make it out from deck. Got soundings at 1 & 3 in 75 & 85 fms. of water respectively. Under steam & square sail except main sail. On course N.E.

W. H. Hoggatt
Ensign U. S. N.

From 4 to 6 P. M.

Overcast & cloudy. Foggy latter part of watch. Light airs from N.N.E. At 4.30 wind shifted from S.W by W to N.N.E. Took in and furled all sail At 4.50 set fore & aft sail. At 4.55 started fires in boilers Nos. 2 & 4. At 5.00 took sounding, 88 fms. fine dark sand. At 5:30 took in fore & aft sail. At end of watch under steam alone on course N.E. P.L. 47.8.

C. P. Craig
Naval Cadet U. S. N.

From 6 to 8 P. M.

Overcast & foggy. Clear overhead, with moon & stars showing. Light airs from S.W. & West. At 7.15 changed course from N.E. to North. At 7:15 took a sounding, 100 fms. no bottom. At 7:15 started fires in Nos. 1 & 3 boilers. Steam alone. P.L. 68.7.

F. J. Boorman
Ensign U. S. N.

From 8 P. M. to Midnight:

First hour, clear overhead. Remainder of watch overcast & cloudy. Foggy, with fog occasionally lifting Light airs from S.W. At 8:00 changed course to N. 3/4 E. At 9:00 connected boilers 2 & 4 with main boilers, & at 9:30 hauled fires in boilers 6 & 7.

A. T. Dechman
Lieut U. S. N.

Examined and found to be correct.

T. B. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea. on the passage from Chemulpo Korea to Vladivostok

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	8	91.5	N. 3/4 E.	S.W.	1			29.86	72	70	69	69	o.c.b.f.c.	cum.	0	S
2	7	2	98.7	"	"	1			29.86	72	76	69	69	o.c.f.c.	"	0	"
3	7	7	6.4	"	"	1			29.85	72	70	69	69	b.c.b.	"	0	"
4	7	6	14.0	"	Calm	0			29.84	72	71	70	69	b.c.	cir cum & nimb.	3	"
5	6	5	20.5	"	South	1			29.83	72	71	70	69	"	"	5	"
6	7	6	28.1	"	"	1			29.87	72	71	70	69	"	"	5	"
7	7	3	35.4	"	"	1			29.89	74	72	71	68	"	"	4	"
8	6	5	42.3	"	S.S.E.	2			29.89	75	73	72	68	"	"	6	"
9	6	8	48.8	"	S.S.W.	2			29.85	75	74	73	69	"	cir cum.	4	"
10	6	8	55.6	"	"	2			29.85	76	75	74	70	"	"	6	"
11	7	0	62.6	"	East	1			29.85	76	75	73	71	"	"	6	"
Noon.	7	1	69.7	"	"	1			29.85	76	76	73	71	"	"	8	"

Course and distance made good since preceding noon by observations, 169 knots 1 tenths.

Position at Noon:
- Latitude by ~~D. R.~~ Bearings N 37 ° 30 ' "
- Longitude by ~~D. R.~~ Bearings E 130 ° 41 ' 41 "
- Latitude by observations of ⊙ 37 ° 28 ' 30 " N.
- Longitude by chronometer from Forenoon Observations of ⊙ 130 ° 41 ' " E.

Position at 8 a. m.
- Latitude by 37 ° ' 01 " N.
- Longitude by 130 ° 39 ' " E.

Position at 8 P. M.
- Latitude by D. R. 38 ° 25 ' " N
- Longitude by D. R. 130 ° 56 ' " E.

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 3510 gallons.

Water Distilled during the preceding 24 hours, 1100 "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 12 tons 1600 lbs.

Coal remaining on hand at Noon, 40 " 12 12 "

P. M.														
	6	6	76.3	N by E. 1/2 E.										
1	7	2	83.5	"	East	1	29.85	77	75	73	71	b.c.	cir cum.	7	S
2	7	1	90.6	"	"	2	29.86	77	75	73	71	"	"	6	"
3	7	3	97.9	"	S.S.E.	2	29.86	75	73	72	71	"	"	5	"
4	7	1	5.0	"	"	2	29.86	75	73	72	71	"	"	5	"
5	6	8	11.8	"	"	2	29.85	74	73	72	70	b.c.f.	cum	4	"
6	6	8	18.6	"	"	2	29.84	73	71	70	70	"	"	4	"
7	6	9	25.5	"	"	2	29.84	72	69	69	70	"	"	2	"
8	6	6	32.1	"	"	2	29.83	71	70	69	69	"	"	2	"
9	7	5	39.6	"	"	2	29.85	71	70	70	68	b.f.	"	2	"
10	7	6	47.2	"	"	2	29.87	71	70	69	68	"	"	3	"
11	7	3	54.5	"	"	2	29.88	71	69	68	69	"	"	4	"
Mid.				"	"	2	29.88	71	70	69	70	"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday July 14th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.

Overcast & foggy, with light drizzling rain & passing showers first part, clearing towards end of watch. Lightning to N. & W. Calm & light airs from S. W.. On course N. ¾ E. under steam alone. Began distilling smooth sea.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.

Fair & pleasant. Light airs from South & S. S. E. Banks of fog to N. & E. Barometer rising. Smooth sea. Ship on course N ¾ E. under steam alone. At end of watch, bar Log 42.3. Distilling.

C. S. Craig
Naval Cadet U. S. N.

From 8 A. M. to Meridian

Fair & warm. Light breeze from S. S. W. decreasing to light airs from East. At 8:05 sighted Dogelet Is. bearing S. S. E. ½ E. Airing bedding. Course N. ¾ E. Steam alone. At Meridian Dogelet Is. bore abeam. P. L. 69.7

F. J. Boorman
Ensign U. S. N.

From Meridian to 4 P. M.

Fair & pleasant. First half light airs from East, then light breeze from S. S. E. Fog banks to N. & E. At 11:00 sent down royal yards. At 2:30 made sail to topgallant sails. Crossed royal yards - set royals. Course N. by E. ½ E. Distilling. Rove off new royal yard ropes

A. T. Jeffries
Lieut U. S. N.

From 4 to 6 P. M.

Cloudy & foggy. Light airs from S. S. E. On course N. by E. ½ E. under steam & plain sail to royals, except mainsail. Distilling. Smooth sea.

W. B. Hoggatt
Ensign U. S. N

From 6 to 8 P. M.

Cloudy & foggy. Light airs from S. S. E. Took in & furled topgallant sails & royals. At end of watch under steam & topsails, forsail & all fore & aft sails. On course N by E ½ E. Bar. Log 25.5

C. S. Craig
Naval Cadet U. S. N.

From 8 P. M. to Midnight:

Foggy. Clear overhead with stars showing. Light breeze from S. S. E. Smooth sea. Course N. by E. ½ E. Plain sail to topsails. Steaming with four boilers. Condensing with boilers Nos. 1 & 3. P. L. 54.5

F. J. Boorman
Ensign U. S. N.

Examined and found to be correct.

E. P. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At sea on the passage from Chemulpo Korea to Vladivostok Siberia

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	2	61.7	N. by E. ½ E.	S. S. E.	2			29.85	71	70	69	70	b. c. f.	cir cum.	4	S.
2	7	0	68.7	"	"	2			29.85	71	70	69	70	"	"	5	"
3	6	9	75.6	"	"	2			29.82	70	69	68	69	"	"	5	"
4	6	8	82.4	"	South	2			29.81	70	68	67	68	"	"	7	"
5	6	6	89.0	"	S. S. W.	2			29.83	70	69	69	68	"	"	7	"
6	7	0	96.0	"	"	2			29.85	71	70	69	68	b. c.	"	6	"
7	7	1	103.1	"	"	2			29.84	72	71	70	68	"	"	5	"
8	6	0	9.1	"	"	2			29.84	73	72	71	68	"	"	5	"
9	7	3	16.4	"	"	2			29.86	75	72	71	68	"	"	4	"
10	6	4	22.8	"	S. by W.	2			29.88	75	73	72	70	"	"	3	"
11	6	7	29.5	"	"	2			29.88	74	73	72	70	"	"	2	"
Noon.	6	6	36.1	"	"	2			29.89	75	74	73	68	"	"	4	"

Course and distance made good since preceding noon by observations, N. 15° E. 16½ (16.6 Alog) knots tenths.

Position at Noon:
- Latitude by D. R. N 40 ° 12' "
- Longitude by D. R. E 131 ° 26' "
- Latitude by observations of ⊙ N 40 ° 06 "
- Longitude by chronometer from Forenoon Observations of ⊙ E 131 ° 35' "

Position at 8 a. m.
- Latitude by D.R. ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by D.R. N 40 ° 00' "
- Longitude by P.M. obs. E 131 ° 45' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 950 "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, 12 tons 1150 lbs.

Coal remaining on hand at Noon, 28 " 64 "

P. M.																	
1	6	7	42.3	N. by E. ½ E.	S. by W.	2	29.86	76	75	72	67	b. c.	cir str. cum.	5	S.
2	6	5	48.8	"	"	2	29.86	76	75	72	67	"	"	6	"
3	5	9	54.7	"	"	2	29.86	76	75	72	66	"	"	4	"
4	6	0	60.7	"	"	2	29.86	76	75	72	66	"	"	3	"
5	6	9	67.6	"	South	3	29.84	74	72	70	66	o. c.	cum nim.	0	"
6	7	9	74.5	"	"	3	29.83	73	72	70	65	"	"	5	"
7	7	4	81.9	"	S. S. W.	3	29.87	73	72	70	64	b. c.	cum strat nimb	1	"
8	7	4	89.3	"	"	3	29.87	73	72	70	64	o. c. d.	"	0	"
9	6	4	96.7	N. by E.	"	3-3	29.84	72	71	70	64	b. c.	"	1	"
10	7	7	4.4	"	"	3	29.83	71	71	69	64	"	"	2	"
11	7	5	11.9	"	"	3	29.83	71	71	69	64	"	"	3	"
Mid.	7	3	19.2	"	"	3	29.80	71	70	69	64	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday July 15th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Clear overhead, foggy around horizon. Light breezes from S.S.E. & S. At 2:00 stopped distilling, the tanks being full, & allowed fires under boilers 2 & 4 to die out. Course N. by E. ½ E.

C.A. Lucas
Lieut. U. S. N.

From 4 to 8 A. M.
Partly clear, & pleasant. Fog first hour. Light breeze from S.S.W. At 4:30 took in all sail. At 7:30 set fore & aft sail. On course N. by E. ½ E. Smooth sea.

W.B. Hoggatt
Ensign U. S. N.

From 8 A. M. to Meridian
Fair & pleasant. Light breezes from S.S.E. & S. by W. At 8:40 made plain sail to royals, except mainsail. At 9:25 mustered crew at quarters for inspection. At 11.40 took in main trysail & spanker. At end of watch under steam & all plain sail to royals except mainsail & spanker. Pat log 36.1

C.D. Craig
Naval Cadet U. S. N.

From Meridian to 4 P. M.
Partly clear, & warm. Light breeze from S. by W. Plain sail to royals except m. trysail & spanker. Steaming with four boilers. At 12:20 changed course to N. by E. ¼ E.

T.J. Boorman
Ensign U. S. N.

From 4 to 6 P. M.
Overcast & cloudy. Gentle breeze from South. Course N. by E. ¼ E. At 4:10 connected boilers 5 & 7 with engines. At 4.20 hauled fires under boilers 2 & 4.

C.A. Lucas
Lieut U. S. N.

From 6 to 8 P. M.
Overcast & cloudy, with very light drizzling rain last hour. Gentle breeze from S.S.W. Took in & furled fore t.g. sail & fore royal. On course N. by E. ¼ E. Smooth sea.

W.B. Hoggatt
Ensign U. S. N.

From 8 P. M. to Midnight
Cloudy & pleasant. Gentle breezes from S.W. At 8:15 changed course to N. by E. pat. log 91.2. Moon set in low bank of clouds at 10.45 At end of watch under sail as in preceding watch. On course N. by E. pat. log 19.2

C.D. Craig
Naval Cadet U. S. N.

Examined and found to be correct.

C.D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Chemulpo, Korea to Vladivostok.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	7	28.9	N. by E.	South	3			29.78	71	70	69	63	b.c.	cir. cum.	5	S.
2	7	2	33.1	"	"	3			29.77	71	70	68	63	"	"	1	"
3	7	4	40.5	"	"	3			29.76	71	69	67	63	"	"	2	"
4	6	0	46.5	"	S by W.	3			29.75	70	69	67	63	"	"	3	"
5	6	2	52.7	"	"	3			29.77	72	70	69	62	"	"	2	"
6	6	8	59.5	"	"	3			29.78	71	69	68	62	"	"	2	"
7	6	4	65.9	"	S.S.W.	3			29.78	71	69	68	62	"	"	2	"
8	6	2	72.1	"	"	3			29.78	70	69	68	62	o.c.	cum.	0	"
9	6	7	78.8	"	"	3			29.76	70	69	68	62	o.c.r.f.	cum nim.	0	"
10	8	0	86.8	"	"	4			29.73	70	70	67	57	"	"	0	"
11	7	5	94.3	"	"	3			29.70	70	68	67	57	o.c.f.	"	0	"
Noon.	7	0	101.3	"	E. by S.	3			29.69	68	66	64	59	"	"	0	"

Course and distance made good since preceding noon by observations, N 6° E. 165 P.L. 156 knots tenths.

Position at Noon:
- Latitude by D. R. 47° 50' "
- Longitude by D. R. 131° 38' "
- Latitude by observations of ⊙ 42° 40' " N.
- Longitude by chronometer from Forenoon Observations of ⊙ D.R 131° 58' "

Position at 8 a. m.:
- Latitude by D.R. 42° 13' " N.
- Longitude by D.R. 131° 54' 50" E.

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2250 "

Coal consumed during the preceding 24 hours, 9 tons 2200 lbs.

Coal remaining on hand at Noon, 18 " 1024 "

P. M.																	
1	7.4	8.7		N by E.	E. by S.	3			29.69	65	62	61	59	o.c.h.	cum nim.	0	S.
2	24 5	11.2		N. by W.	"	2			29.70	66	64	63	60	"	"	0	"
3	4 9 / 1 9	15.7 / 16.9 / 21.8		N. N. W. N. W. ½ W.	S. S. E.	3			29.68	67	65	64	60	o.c.p.k.	"	0	"
4	7 8	23.7 / 31.5		Standing in to Vladivostok harbor.	West	2			29.68	67	66	65		o.c.h.	"	0	"
5	Ebb.			S. E.	S. E. by E.	2			29.67	68	66	65		o.c.d.	"	0	"
6	"			S. E. by E.	"	2			29.66	69	67	66		"	"	0	"
7	Flood			"	"	2			29.66	68	67	66		o.c.f.	"	0	"
8	"			"	"	2			29.65	68	67	66		"	"	0	"
9	"			S. E.	S. E.	2			29.68	68	68	67		o.c.r.	"	0	"
10				"	"	1			29.69	68	67	66		"	"	0	"
11				E by S.	E. by S.	1			29.69	68	67	66		o.c.f.	"	0	"
Mid.				"	"	1			29.67	67	67	66		d.c.p.f.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday July 16th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.

Partly clear & cool. Gentle breeze from South & S.S.W. Plain sail to royals except fore t.g. & royal & main trysail & spanker. Steaming with four boilers. Course S. by E. D.R. 46.5

F. J. Soomis
Ensign U. S. N.

From 4 to 8 A. M.

Generally cloudy. End of last hour, light drizzling rain. Gentle breeze from S. by W. & S.S.W. Course S. by E. Steam & plain sail to royals except fore t.g. sail, fore royal, main trysail & spanker.

A. F. Fenton
Lieut U. S. N.

From 8 A. M. to Meridian

Overcast with rain first half of watch, clearing towards end. Gentle to mod. breeze from S.S.W. shifting to E by S. last hour. At 11.30 set fore t.g. sail & royal, spanker & main trysail. By order of the Comdg Officer released A. Fortell, O.S. & Geo Cope Dr. Gr. from confinement. Their terms having expired. On course S by E under plain sail to royals, & steam at end of watch. Smooth sea.

W. B. Woggatt
Ensign U. S. N.

From Meridian to 4 P. M.

Overcast, & cloudy & hazy. Light passing showers third hour. Light to gentle breezes from E. by S., S.S.E. & West. At 12:20 sighted Askold Is. bearing S.E. by E. N.E. & E.N.E. At 12.30 started fires in Nos. 1 & 3 boilers, & connected them to engines at 2:10. At 12.55 sighted land on port bow. At 1:19 changed course to N by W. pat. log 11.2. At 1:27 called all hands, took in & furled all sail. At 2:10 set fore & aft sail, & changed course to N.N.W. pat. log 16.9 At 2:47 changed course to N.N.W.¾ W. pat log 21.8, & to N.N.W.¾ W. at 3:05 pat. log 24.4 The remainder of watch standing in to Vladivostok Harbor, changing course frequently. At 3:55 called all hands bring ship to anchor.

C. S. Craig.
Naval Cadet U. S. N.

From 4 to 8 P. M.

Overcast, with light drizzling rain first half, foggy last half. Light breeze from S. & by E. At 4:38 came to in 7 fms. soft bottom, with 30 fms. on stbd. chain in Vladivostok harbor. Ships draft 13 ft. forward, 15 ft. aft. Hauled fires in all boilers. Received a visit from Russian boarding officer. At sunset, sent down t.g. & royal yards & t.g. masts.

Church N x W ½ W Menshuk Pt. (tangent) W S W

F. J. Soomis
Ensign U. S. N.

From 8 P. M. to Midnight

Overcast generally & rainy. Foggy last two hours. Light airs to light breeze from S.E. & E by S.

C. F. Fenton
Lieut U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Vladivostok, Siberia

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				E by S.	E by S.	2			29.67	68	67	66		o.c.v.f.	cums nimb.	0	S.
2				East	"	1			29.66	68	67	66		"	"	0	"
3				"	"	1			29.67	68	67	66		"	"	0	"
4				"	"	1			29.65	68	67	66		o,c,	"	3	"
5				N.N.	N.N.	1			29.64	68	67	66		b.c.f	"	3	"
6				N.E. by N.	"	1			29.67	68	67	66		"	cir cum.	0	"
7				N. by W.	"	1			29.68	69	68	67		b.c.	"	6	"
8				"	"	1			29.68	70	68	68		"	"	7	"
9				"	"	1			29.70	70	69	68		"	"	7	"
10				"	NNW.	1			29.70	72	72	70		"	"	7	"
11				North	"	2			29.71	75	73	72		"	"	7	"
Noon.				NNW.	"	2			29.71	76	75	73		"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 2 tons 240 lbs.

Coal remaining on hand at Noon, 15 "2104 "

P. M.																	
1				N.N. by W.	West.	2			29.71	78	77	74		b.c.	cir. cum.	7	S.
2				West	"	1			29.70	78	77	74		"	"	6	"
3				W. by S.	"	2			29.71	78	77	74		"	"	6	"
4				West	"	2			29.71	78	78	74		"	cir Cum Strat.	6	"
5				"	"	1			29.71	80	78	75		"	"	7	"
6				"	"	1			29.71	80	78	75		"	"	7	"
7				"	"	1			29.75	79	77	75		"	"	5	"
8				S.S.W.	"	1			29.78	78	76	74		"	Strat cumi.	4	"
9				S.W.	"	1			29.78	77	76	73		"	"	4	"
10				N.W. by W.	"	1			29.78	77	76	73		"	"	6	"
11				N by E.	Calm	0			29.79	77	74	73		"	"	6	"
Mid.				N.N.E.	N.N.E.	1			29.79	77	74	73		"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday July 17th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 P. M.
Overcast, foggy & raining. Clearing last hour. Light airs & breeze from E. by S.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.
Fair. Foggy two hours. Light airs from N. W. Swinging to flood tide at end of watch. At 8:00 o'clock, crossed t. g. yards & loosed sail to a bowline

F. J. Boerum
Ensign U. S. N.

From 8 A. M. to Meridian:
Clear & warm. Light airs to light breeze from N. W. & N. N. W. At 9:35 inspected at quarters. Then drilled battalion at infantry & artillery drill. Comdg Officer left the ship to pay official visits

A. F. Beehler
Lieut U. S. N.

From Meridian to 4 P. M.
Clear & warm. Light airs & breeze from West. At 1:45 shortened sail, unbent flying jib, royals & main trysail. At 3:35 furled sail. A. Portell O.S. was discharged at his own request by reason of the expiration of his term of enlistment; he waiving all claims to consular aid. Rove off new fore topsail halliards

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.
Fair & pleasant. Light westerly airs. At sundown sent down t'gallant yards

A. F. Beehler
Lieut. U. S. N.

From 8 P. M. to Midnight:
Fair & pleasant. Calm, & light airs from West & N. N. E. Russian gun vessel came in.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

T. N. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Vladivostok, Siberia

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				North	North	2			29.78	75	74	70		b. c.	cir cum.	8	S.
2				"	"	3			29.78	74	73	70		"	"	8	"
3				N E. by N	"	1			29.78	74	72	70		"	"	8	"
4				N W.	Calm	0			29.78	73	72	70		"	"	8	"
5				"	North	1			29.80	73	72	70		"	"	6	"
6				West	N. W.	1			29.82	74	72	70		"	"	8	"
7				N W.	Calm	0			29.83	74	72	70		b.	None	10	"
8				W. S. W.	West	1			29.82	74	72	70		"	"	10	"
9				"	"	1			29.83	73	72	70		"	"	10	"
10				N. N W.	"	1			29.83	74	73	71		"	"	10	"
11				West	"	1			29.83	75	75	71		"	"	10	"
Noon.				W by N	"	1			29.82	77	76	71		b. c.	cum.	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1550 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 15 " 1702 ".

P. M.																	
1				West	West	1			29.82	80	78	73		b. c.	cum.	9	S.
2				S. S. W.	"	1			29.82	82	81	74		"	"	9	"
3				W. S. W.	S. W.	1			29.82	83	82	74		"	"	9	"
4				S by W	S. by E	1			29.81	83	82	74		"	"	9	"
5				South	S. E.	2			29.80	81	80	74		"	"	9	"
6				S E.	"	2			29.79	80	78	72		"	cir cum.	8	"
7				E S. E.	"	2			29.79	78	76	71		"	"	7	"
8				E by S.	S. S. E.	1			29.77	75	74	71		"	"	8	"
9				E S. E.	E. S. E.	1			29.78	74	73	70		"	"	8	"
10				S. E. by E.	"	1			29.78	73	73	68		"	"	7	"
11				E. S. E.	"	2			29.78	71	71	68		"	"	3	"
Mid.				E by S.	"	2			29.78	71	71	68		"	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday July 18th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
clear & pleasant. Light airs to gentle breezes from North first three hours. Calm last hour

C. S. Craig
Naval Cadet U. S. N.

From 4 to 8 A. M.
clear & warm. Calm, & light airs from N. & N.W. At 7:45 crossed topgallant yards.

A. F. Fechteler
Lieut U. S. N.

From 8 A. M. to Meridian
clear bright & warm. Light airs from West. The Russian Rear Admiral & Governor of Vladivostok, paid an official visit to the Commander. Comdg Officers of Russian men-of-war Nayezdnik & Rasboynik paid official visits to the Commander. Mustered crew at quarters, then exercised divisions as follows: 1st & 2nd divs. oral instructions, Powder div. machine gun. Armed & equipped boats for cutting out & manoeuvred from ship by signals. Commanding Officers paid an official visit to H. I. R. M. S. Rynda.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P. M.
clear & warm. Light airs from West, S.W. & S.E. Light cumulus clouds. Engaged in scraping top gallant & royal masts & boat strongbacks. Sailmakers Mate at work on jib. Condemned by survey one 3-lb can butter & turned it in for slush.

C. S. Craig
Naval Cadet U. S. N.

From 4 to 8 P. M.
Clear & pleasant. Light airs from S.E. & S.S.E. The Comdg Officers of H. I. R. M. S. Rynda paid an official visit to the Commander. At 5:45 sent down t.g. yards. Rove off new fore topsail reef tackles & buntlines & fitted new main topgallant lifts. Scraped strongbacks. Received on board for passage to next port having U. S. Consul, John W. Auld & dispatches U. S. Steamer The Russian man of war Dimitrii Donskoi came in at 7:45. Sent boarding officers to offer usual courtesies

W. B. Hoggatt
Ensign U. S. N.

From 8 P. M. to Midnight
Generally Clear & pleasant. Light airs to light breezes from S.S.E.

C. S. Craig
Naval Cadet U S N

Examined and found to be correct.

C. D. Galloway
Lieut U S N
Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Vladivostok Siberia

Hour	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cis		
1				E. S. E.	E by S.	1			29.78	71	69	68		b. c.	cum.	8	S.
2				E by S.	"	1			29.79	71	69	68		"	"	8	"
3				E S. E.	E. S. E.	2			29.79	70	69	68		"	"	8	"
4				E. by S.	"	2			29.78	70	69	67		"	"	3	"
5				E S. E.	"	1			29.78	70	69	67		"	"	3	"
6				"	"	2			29.80	70	68	67		"	"	2	"
7				"	"	2			29.81	71	69	67		"	"	3	"
8				"	S. E.	1			29.82	71	69	67		"	"	4	"
9				S. S. E.	"	1			29.82	72	72	70		"	"	5	"
10				S. E.	"	1			29.82	74	72	70		"	cum.	4	"
11				S. E by S.	"	1			29.80	74	72	70		"	"	5	"
Noon.				"	"	1			29.80	74	72	70		"	"	3	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1150 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 13 " 1904 "

Hour	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.																	
1				S. S. E.	S. S. E.	2			29.78	76	74	71		b. c.	cis cum.	6	S.
2				E S. E	E S. E.	2			29.77	76	74	71		"	"	7	"
3				S. E.	S. E.	2			29.77	73	72	70		b. c. f.	cum.	3	"
4				"	"	2			29.77	73	72	70		o. c. f.	"	0	"
5				"	"	2			29.79	73	72	69		"	"	0	"
6				"	"	2			29.79	72	71	69		"	"	0	"
7				S. E by S.	"	2			29.79	72	70	69		"	"	0	"
8				"	"	2			29.79	72	70	69		"	"	0	"
9				"	S. E. by S.	2			29.79	72	70	69		"	cum nim.	0	"
10				S S. E.	"	2			29.79	72	71	70		o. c. f. m.	"	0	"
11				"	"	2			29.78	72	71	70		"	"	0	"
Mid.				"	"	2			29.78	72	71	70		"	"	0	"

under the command of Commander J. F. Jewell, U. S. Navy,

Thursday July 19th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M
Clear & pleasant. Light airs & breezes from E by S. & E. S. E.

J. F. Jewell
Ensign U. S. N.

From 4 to 8 A.M.
Generally cloudy & pleasant. Light airs & breeze from E. S. E. & S. E. Recd. for issue 118¾ lbs each of fresh beef & vegetables & 95 lbs fresh bread. Bent royals & flying jib. At 7:50 crossed t.g. & royal yards & loosed sail to a bowline

W. B. Hoggatt
Ensign U. S. N.

From 8 A.M. to Meridian
Fair & pleasant. Light airs from S. E. At 9:35 mustered at quarters & exercised 1st & 2nd divs. great guns Examined magazine flood cocks, tested gun cotton, found in good condition. At 10:15 called all hands, shortened & furled sail, afterwards exercised at light spar drill received official call from boarding officer of the "Dimitrii Donskoi", & Comdg Officer paid her an official visit. At 10:45 the Russian Man of war "Naidznik" got under way & left the harbor & fired a salute of 13 guns which was answered by the "Dimitrii Donskoi" with 7 guns. Unbent royals & flying jib.

A. Craig.
Naval Cadet U. S. N.

From Meridian to 4 P.M.
Fair decreasing to cloudy & foggy weather. Light breezes varying from E. S. E. to S. S. E. At 3:15 a Russian man-of-war left the harbor & fired a salute of 13 guns, the Russian Flagship & a fort on shore returned the salute with seven(7) guns.

J. F. Jewell
Ensign U. S. N.

From 4 to 8 P.M.
Overcast, cloudy & foggy. Light breeze from S. E.

A. Craig.
Naval Cadet U. S. N.

From 8 P.M. to Midnight
Overcast & foggy with heavy mist. Light breeze from S. E. by S.

J. F. Jewell
Ensign U. S. N.

Examined and found to be correct.

C. C. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Vladivostok.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S.S.W.	South	2			29.75	71	70	69		o.c.f.	cum nim	0	S
2				S.E. by S.	"	2			29.75	71	70	69		"	"	0	"
3				"	S.E. by S.	2			29.73	70	69	68		"	"	0	"
4				"	"	2			29.73	70	69	68		"	"	0	"
5				"	S.E by E.	2			29.74	70	69	68		"	"	0	"
6				S.E.	"	2			29.75	69	68	67		"	"	0	"
7				S.E by E.	"	2			29.75	69	68	67		"	"	0	"
8				S.E.	S.E by S.	2			29.75	69	68	67		"	"	0	"
9				S.E by S.	S. by E.	2			29.73	70	69	68		"	"	0	"
10				S.E.	"	2			29.73	70	69	68		"	"	0	"
11				"	"	2			29.73	71	69	68		"	"	0	"
Noon.				"	"	2			29.72	72	69	68		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 800 "

Coal consumed during the preceding 24 hours, tons 1120 lbs.

Coal remaining on hand at Noon, 75 " 184 "

P. M.																	
1				S.S.E.	S.E.	2			29.73	71	69	68		o.c.f.m.	cum nim.	0	S.
2				S.E by S.	"	2			29.73	71	69	68		"	"	0	"
3				"	S.S.E.	2			29.73	71	69	68		"	"	0	"
4				"	"	2			29.71	71	69	68		"	"	0	"
5				S.E.	S.E.	2			29.70	70	68	68		"	"	0	"
6				"	"	2			29.68	70	68	68		"	"	0	"
7				E.S.E.	"	2			29.68	70	68	68		"	"	0	"
8				S.E by E.	"	2			29.68	70	68	67		"	"	0	"
9				S.E.	"	2			29.70	70	68	67		"	"	0	"
10				"	"	2			29.71	70	68	67		o.c.f.r.	"	0	"
11				"	"	2			29.70	70	68	67		"	"	0	"
Mid.				"	"	2			29.69	70	68	67		"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday July 20th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M
Cloudy, foggy. Light airs from South and
S. E. by S.

A. F. Jewett
Lieut U. S. N.

From 4 a m to 8 a m.
Overcast and cloudy, foggy and misty. Light breeze from S by E. and S.E. by S.. At 6:30, three coal lighters came along side with coal. Inspected coal and accepted it. Recd. on board 118¾ lbs beef and vegetables and 95 lbs bread. At end of watch engaged in coaling ship.

C. A. Craig.
Naval Cadet U.S.N

From 8 a M to Meridian
Overcast and foggy, with heavy mist. Light breeze from S.E. At 10.50 finished coaling ship, having received in all sixty (60) tons. Recd. in Equipt. Dept. one (1) cord of wood. The Comdg officer of H. I. R. M. S. "Dimitrii Donskoi" paid an official visit to this ship. At 11.20 started fires in boilers 1 and 3 for condensing

F. J. Boodmin
Ensign U.S.N

From Meridian to Four P. M.
Foggy. Rainy. Light breeze from S. E.
and S.S.E.

A. F. Jewett
Lieut U. S. N.

From 4 to 8 P. M.
Overcast, foggy and misty, Light breeze from S. E. Distilling. At 5: 49 went to Quarters. Ready in 1.00 min., secured in 1.40 min. Private Mossop (U.S.M.C.) absent without leave.

F. J. Boodmin
Ensign U.S.N

From 8 P. M. to Midnight
Foggy. Raining. Light breeze from S.E.
Distilling

A. F. Jewett
Lieut. U. S. N

Examined and found to be correct.

E. K. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Valadivostok Siberia.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. E.	S. E.	2			29.69	70	68	67		o.c.f.r.	cumm	0	S.
2				"	"	2			29.69	70	68	67		"	"	0	"
3				"	"	1			29.69	70	68	67		"	"	0	"
4				"	"	1			29 70	69	68	67		"	"	0	"
5				"	"	2			29.66	69	68	67		o.c.f.m.	"	0	"
6				"	"	2			29.67	69	68	67		"	"	0	"
7				S.S.E.	"	2			29.67	70	68	67		"	"	0	"
8				S.E.by S.	"	2			29.68	70	68	67		"	"	0	"
9				S.E.	"	2			29.69	70	68	67		o.c.f.	"	0	"
10				S by E.	"	2			29.70	70	69	68		o.c.	"	0	"
11				"	"	2			29.70	71	70	68		"	"	0	"
Noon.				"	"	2			29.70	73	70	69		b.c.	cir cum.	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, 1250 "

Water remaining on hand fit for use at Noon, 1700 "

Coal consumed during the preceding 24 hours, 2 tons 420 lbs.

Coal remaining on hand at Noon, 72 "2000 "

P. M.														
1		S. E.	S. E.	2	29.68	74	71	69	b.c.	cir cum st.	3	S.
2		S. E by S.	"	2	29.68	74	72	69	"	"	3	"
3		S. E.	"	2	29.67	74	72	70	"	"	4	"
4		S. E by E.	"	2	29.67	74	72	70	"	"	4	"
5		S. E.	"	2	29.66	73	71	69	"	"	4	"
6		S. S. E.	"	2	29.67	73	71	69	"	"	4	"
7		S. E.	E. S. E.	2	29.65	72	70	68	"	"	4	"
8		E. S. E.	S. E.	2	29.67	71	70	68	"	"	1	"
9		E by N.	"	2	29.68	71	70	69	"	"	4	"
10		East	"	2	29.69	71	70	69	b.c.f.	"	4	"
11		"	"	2	29.69	71	70	69	o.c.	"	4	"
Mid.		N N W.	N. W.	1	29.69	71	70	69	o.c.	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday July 21st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Overcast, rainy & foggy. Clearing at end of watch. Light airs & breeze from S.E. Distilling

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.
Overcast & foggy with heavy mist. Light breeze from S.E. Cleaned bilges. Recd. in Pay Dept. for issue to crew, 118 3/16 lbs each fresh beef & vegetables & 95 lbs bread. Distilling. A Russian gunboat left the harbor at 6:15

F. J. Boodman
Ensign U.S.N.

From 8 A.M. to Meridian
Generally cloudy. Clearing towards end of watch. Light breeze from S.E.

A. F. Fechteler
Lieut U.S.N.

From Meridian to 4 P.M.
Partially clear, pleasant. Light airs from S.E. Arie Simons (o.s.) left the 2nd cutter without permission, while at the shore landing on duty. Distilling

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.
Generally cloudy. Pleasant. Light breeze from S.E. & E.S.E.

A. F. Fechteler
Lieut U.S.N.

From 8 P.M. to Midnight
Generally cloudy & pleasant. Light airs and breeze from S.E. & N.W. Distilling. Private J Mossop U.S.M.C. returned from liberty 40½ hours over time

W.B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

D.D. Galloway
Lieut. and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Vladivostok Siberia

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
1				E. S. E.	Calm	0			29.68	71	70	69		b. c.	air cum.	3	S.
2				"	"	0			29.69	71	70	69		"	"	3	"
3				E by S.	"	0			29.69	71	70	69		"	"	6	"
4				S. W.	West.	1			29.69	71	70	69		o. cf.	cum num	0	"
5				N by S.	Calm.	0			29.70	70	70	69		"	"	0	"
6				NW by W.	"	0			29.70	71	70	69		"	"	0	"
7				N by S.	"	0			29.70	71	70	69		"	cir. Cum	0	"
8				South	"	0			29.72	72	71	70		b. c.	"	4	"
9				NNW.	North	2			29.73	73	72	71		"	"	2	"
10				N by E.	"	3			29.73	75	73	72		"	"	3	"
11				"	"	2			29.73	77	75	74		"	"	3	"
Noon.				North.	"	2			29.73	78	76	74		"	"	3	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1650 "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, 1 tons 1760 lbs.

Coal remaining on hand at Noon, 71 " 2244 "

P. M.												
1	N by W	North	2	29.73	80	79	75	b. c	cir cum.	5	S.
2	N. W. by W.	"	1	29.73	80	79	76	"	"	5	"
3	S. E. by S.	S. S. E.	1	29.74	79	79	76	"	"	4	"
4	S. S. E.	"	2	29.74	79	78	75	"	"	3	"
5	E by S.	"	2	29.74	75	75	73	"	"	1	"
6	"	S. E.	2	29.73	76	74	72	"	cir cum cum	1	"
7	S. E.	"	1	29.73	75	74	73	b. c. p.	"	1	"
8	W S. W	"	1	29.73	76	74	73	o. c. d.	"	0	"
9	W by S	Calm	0	29.74	75	74	72	b. c	cir cum.	3	"
10	W by N	"	0	29.74	75	74	72	"	"	7	"
11	N. W.	"	0	29.74	74	73	72	"	"	7	"
Mid.	NW. by W.	"	0	29.75	73	73	71	"	"	7	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday July 22nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A M
Fair and pleasant, foggy last hours. Calms and light breezes from Nrt.

C. A. Craig
Naval Cadet U.S.N.

From 4 to 8 A M
Generally calm, occasional light variable airs. Foggy first three hours. End of watch fair and warm. Recd and issued to crew 198 lbs. fresh bread, 118 3/4 lbs fresh beef and 118 3/4 lbs fresh vegetables

A. T. Jacocks
Lieut U.S.N.

From 8 A M to Meridian:
Generally cloudy and warm. Light to gentle breeze from North. At 9:32 mustered crew at quarters, Comdg Officer inspected ship with crew at quarters. J. H. Bussman, Corpl. U.S.M.C., Arie Simons (o.s.) G. Offenberg (o.s.) and J. O'Doherty (sea.) were absent without leave. H.I.R.M.S. Rasboynik left the harbor. At 10:20 stopped distilling and hauled fires from boilers 1 and 3.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P. M.
Fair and pleasant. Light airs to light breezes from North, first two hours, shifting to S.S.E. latter part of watch

C. A. Craig
Naval Cadet U.S.N.

From 4 to 8 P. M.
Cloudy and pleasant, with light drizzling rain last part. Light airs and breeze from S.E. and S.S.E. Bent on trypail and fore-topmast staysail. Made preparations for sea.

W. B. Hoggatt
Ensign U.S.N.

From 8 P. M. to Midnight:
Clear and pleasant. Calm. Bright moonlight

C. A. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Vladivostok Siberia to Hakodate Jap.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				E by S.	Calm	0			29.77	73	72	70		b.c.	cir cum.	7	S.
2				"	East	1			29.77	72	72	70		"	"	6	"
3				"	"	1			29.77	71	71	69		"	"	7	"
4				"	E.S.E.	1			29.76	71	71	69		"	"	7	"
5				E.S.E.	Calm	0			29.76	71	70	69		b.c.m	"	3	"
6	7	0		Getting mad Way	"	0			29.78	72	70	69		o.c.f.	cum num.	8	"
7	6	2	6.2	S.S.E.	E.N.E.	2			29.78	72	69	68	67	o.c.p.f.	"	0	"
8	8	1	13.3	"	E.S.E.	2			29.78	70	69	68	67	o.c.r.f.	"	0	"
9	8	7	22.0	S.E. ¾ S.	"	2			29.77	70	69	68	67	"	"	0	"
10	8	5	30.5	E.S.E.	East	3			29.77	70	69	68	67	"	"	0	"
11	7	9	38.4	"	"	4			29.76	69	68	67	66	o.c.r.	"	0	"
Noon.	7	3	45.7	"	E.S.E.	4			29.74	68	66	65	65	"	"	0	"

Course and distance made good since preceding noon by observations, Various (Har. Chart) 52 knots 7 tenths.

Position at Noon:
- Latitude by D. R. 42° 31' " N.
- Longitude by D. R. 137° 37' " E.
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by D. R. 42° 23' "
- Longitude by D. R. 133° 23' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, 6 tons 460 lbs.

Coal remaining on hand at Noon, 64 " 2024 "

P. M.																	
1	6	0	51.7	E.S.E.	East	4	29.73	67	64	63	65	o.c.g.r.	cum num	0	M
2	5	1	56.8	"	"	4-5	29.71	65	63	62	62	o.c.g.d.	"	0	"
3	4	2	61.0	"	"	4-6	29.69	65	62	62	61	o.c.g.m	"	0	"
4	3	8	64.8	"	"	4-6	29.69	63	63	62	60	o.c.g.r.	"	0	"
5	3	2	68.0	"	"	4-6	29.70	65	62	61	60	"	"	0	"
6	5	2	73.2	S.E.	"	5-6	29.71	65	61	61	60	"	"	0	"
7	5	2	78.4	S.E.	E. by N.	4-6	29.70	65	61	60	59	"	"	0	"
8	4	2	82.6	"	"	5-6	29.70	65	61	60	59	"	"	0	"
9	5	7	88.3	"	"	6-7	29.72	64	60	59	58	o.c.g.	"	0	"
10	5	5	93.8	"	"	6-7	29.72	63	60	59	58	"	"	0	"
11	5	7	99.5	"	"	6-7	29.72	63	59	58	59	"	"	0	"
Mid.	4	0	3.5	"	"	6-7	29.72	62	58	57	59	"	"	0	"

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under the command of Commander T. F. Jewell, U. S. Navy,

Monday July 23d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M

Clear & pleasant. Calm first hours, then light airs from East & E.S.E.. At 1:00 started fires in six boilers.

T. J. Fowler
Ensign U.S.N

From 4 to 8 A.M

Overcast, foggy & raining. Calm, & light breeze from E.N.E. & E.S.E.. At 4:57 hove in to 15 fms. on stbd. chain. At 5.11 called all hands up anchor, got under way & stood out of harbor with the Comdg Officer at the conn. At 6:20 took departure & hove over patent log reading 0.0. Bearings p.c. Basarglin Pt. E by N, Novosilski Pt. N.N.W.½W. Nazunoff Pt. N.N.W.¾W. At 6.40 Changed course to S.S.E. pat. log. 2.5. At 7.05 set fore & aft sail. Draft of ships 13.7" fwd. 15'9" aft. Steaming with six boilers.

W. H. Hoggatt
Ensign U.S.N

From 8 A.M to Meridian.

Overcast, cloudy & rainy. Foggy first two hours. Smith to moderate breeze from East & E.S.E. At 8.30 Changed course to S. & ¼ S. P.L. 18.1 At 9:08 to S.E. pat log 23.2. At 9:35 to E.S.E. pat. log 27.8. At 9.35 Mustered at quarters following men absent without leave: J.H. Bussman Corpl. U.S.M.C. & Aire Simons (o.s.) Set fore & aft sail twice but took it in again after a few minutes. Wind & sea increasing towards end of watch. Ship under steam alone, course E.S.E.

C. S. Craig
Naval Cadet U.S.N

From Meridian to 4 P.M

Overcast & cloudy, with heavy rain & fog. Mod. to fresh breeze from East. Steaming course E.S.E.. No sail set. P.L. 64.8. Mod. sea & swell. Ship pitching moderately

T. J. Fowler
Ensign U.S.N

From 4 to 6 P.M

Overcast squally & rainy, Cloudy. Moderate sea. Wind first hours moderate to fresh then stiff to fresh from East. At 5:00 changed course to S.E. & set fore-topmast staysail, M. trysail & spankers. Close-reefed M. topsail & refurled it

G. A. Converse
Lieut U.S.N

From 6 to 8 P.M.

Overcast, squally & raining. Mod. to fresh breeze from East by N. Moderate sea from E. by N.. On course S.E. under fore and aft sail. except jib & f. jib with engines slowed to 40 revs. Put main & main topsail preventer braces & jumpers on main yard.

W. H. Hoggatt
Ensign U.S.N

From 8 P.M to Midnight.

Overcast, squally, cloudy. Moderate to very fresh breezes from E by N. Ship under steam & sail as in preceding watch. Making course S.E. pat. log at end of watch 103.5

C. S. Craig
Naval Cadet U.S.N

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Vladivostok Siberia to Hakodate Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	0	8.5	S. E by E.	E. by N	5-6			29.64	61	58	58	58	O. C. q.	Cum. nim.	0	M.H.
2	5	1	13.6	"	"	5-6			29.63	62	59	59	58	"	"	0	"
3	5	2	18.8	"	"	5-6			29.61	62	60	59	59	"	"	6	"
4	5	2	24.0	"	"	5-6			29.60	63	60	60	60	"	"	0	"
5	5	1	29.1	S. E. by E ½ E.	E. N. E.	4-5			29.60	64	61	61	60	O. C.	"	0	"
6	6	1	35.2	"	"	4-5			29.60	66	62	62	60	"	"	0	"
7	5	9	41.1	"	"	4-5			29.60	65	63	62	60	"	"	0	M.
8	6	5	47.6	"	"	4-5			29.60	65	64	64	60	O. C. p.	"	0	"
9	6	4	54.0	"	E by N.	4-5			29.61	65	64	63	64	"	"	0	"
10	6	2	60.2	E. S. E. ¾ E.	E by S.	4			29.62	68	67	66	65	O. C.	"	0	"
11	6	5	66.7	"	E. S. E.	4			29.62	69	68	67	66	b. c.	"	2	"
Noon.	5	3	72.0	"	"	4			29.64	69	69	68	66	"	"	4	"

Course and distance made good since preceding noon by observations, S. 61° E. (P2 1261) 105 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 41 ° 34' "
- Longitude by D. R. — E 135 ° 03' "
- Latitude by observations of ⊙ — N 41 ° 40' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 134 ° 39' "

Position at 8 a. m.:
- Latitude by — N 41 ° 43' " N.
- Longitude by — E 134 ° 48' " E.

Position at 8 P. M.:
- Latitude by D.R. — N 41 ° 33' "
- Longitude by D.R. — E 136 ° 09' "

Current during the time, knots .7 tenths per hour, setting to the N 78° W

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2300 "

Coal consumed during the preceding 24 hours, 16 tons 1820 lbs.

Coal remaining on hand at Noon, 48 " 2024 "

P. M.																	
1	5	8	77.8	E. S. E. ¾ E.	E. S. E.	4			29.64	72	71	69	66	b. c.	Cum strat.	4	M.
2	5	8	83.6	"	"	4			29.64	72	71	69	66	"	"	4	"
3	6	1	89.7	"	"	3-4			29.65	72	71	69	66	"	"	4	"
4	5	9	95.6	"	S. E.	3-4			29.67	72	71	69	66	"	"	3	"
5	6	0	101.6	"	S. E. by S.	4			29.68	72	71	69	65	O. C.	Cum nim.	0	"
6	6	6	8.2	"	"	4			29.70	71	70	68	65	O. C. p.	"	0	"
7	6	7	14.9	"	"	3			29.73	70	69	67	66	"	"	0	"
8	6	8	21.7	"	"	3			29.73	70	70	68	66	"	"	0	"
9	7	1	28.8	"	"	3			29.75	70	69	68	66	b. c.	"	1	"
10	7	4	36.2	"	"	3			29.76	70	69	68	67	O. C. p.	"	0	"
11	7	1	43.3	"	N. E.	3			29.77	70	69	68	67	O. C.	"	0	"
Mid.	7	0	50.3	"	"	3			29.78	70	69	68	67	"	"	0	"

under the command of Commander T. F. Jewell, , U. S. Navy,

Tuesday July 24th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.

Overcast & cloudy. Foggy around horizon. Stiff to fresh breeze from E by N. Squally. Mod. to heavy sea from Ed. Steaming with six boilers. F. t. m. staysail, M trysail & spanker set. Making good S.E. by E. Course E.S.E. D.L. 24.0

T. J. Fromm
Ensign U.S.N.

From 4 to 8 A M.

Overcast. Cloudy. Occasional light drizzling rain. Moderate to stiff breeze from E.N.E. Course S.E. by E. ½ E. At 5:15 went ahead full speed & set jib.

A. F. Scanlon
Lieut U.S.N.

From 8 A M to Meridian.

Generally cloudy, with light passing showers first hours, clearing towards end of watch. Fresh to moderate breeze from E by N to E.S.E. At 9:00 took in fore & aft sail & changed course to E.S.E. ¾ E. At 9:30 mustered crew at quarters, then exercised 1st div. at machine gun, 2nd & Powder divs. at single sticks. Examined dry gun-cotton & batteries; found all in good condition. Mod. decreasing sea from E.N.E.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P. M.

Fair & pleasant. Gentle to moderate breeze from S.S.E. & S.E. Exercised signal class one hour in signals. Sailmaker's Mate at work on jibs. Moderate sea. Barometer rising. Ship on course E.S.E. ¾ E under steam alone. Pat. log at end of watch 90.6.

J. S. Crain
Naval Cadet U.S.N.

From 4 to 6 P. M.

Overcast & cloudy. Light passing showers last hours. Mod. breeze from S.E. by S. Steaming with fore & aft sail set. Course E.S.E. ¾ E. D.L. 8.2

T. J. Fromm
Ensign U.S.N.

From 6 to 8 P. M.

Overcast & cloudy. Last hour, occasional light, drizzling rain. Gentle breeze from S.E. by S. Course E.S.E. ¾ E.

A. F. Scanlon
Lieut U.S.N.

From 8 P. M. to Midnight:

Overcast, with light showers second hours. Gentle breeze from S.E. by S. & S.E. At 10:20 took in fore & aft sail. Moon rose at 8.15 On course E.S.E. ¾ E.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Vladivostok Siberia to Hakodate Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	7	56.0	E. S. E. 3/4 E.	S. E.	3			29.78	71	70	68	67	O. C.	cum nim.	0	m.
2	6	6	62.6	"	"	3			29.78	71	70	68	66	"	"	0	"
3	6	6	69.0	"	"	3			29.78	71	70	68	65	"	"	0	"
4	7	0	76.0	"	"	3			29.80	70	69	68	65	"	cum str. nim	0	"
5	6	4	82.4	"	S. S. E.	3			29.81	70	69	68	65	b. c.	"	3	S.
6	7	2	89.6	"	"	3			29.82	70	69	68	65	"	cir cum	3	"
7	7	9	97.5	"	S by E.	3			29.83	70	69	68	66	"	"	4	"
8	8	0	5.5	"	"	3			29.84	71	70	68	66	b. c. z.	"	6	"
9	7	8	13.3	"	"	3			29.87	71	69	68	66	b. c.	"	4	"
10	7	8	21.1	"	"	2			29.88	71	69	68	65	"	"	4	"
11	8	1	29.2	"	"	2			29.89	71	70	68	65	"	"	5	"
Noon.	6	5	35.7	"	"	3			29.89	72	70	69	65	"	"	7	"

Course and distance made good since preceding noon by observations, E. 7° S. P. L. 163.7 / 162½ knots. tenths.

Position at Noon:
- Latitude by D. R. N 41 ° 22' "
- Longitude by D. R. E. 138 ° 14' "
- Latitude by observations of ⊙ N 41 ° 23' "
- Longitude by chronometer from Forenoon Observations of ⊙ E. 138 ° 10' "

Position at 8 a. m.
- Latitude by D. R. 41 ° 31' " N
- Longitude by obs. 137 ° 30' " E.

Position at 8 P. M.
- Latitude by N. 41 ° 16' "
- Longitude by E. 139 ° 32 "

Current during the time, — knots — tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1950 "

Coal consumed during the preceding 24 hours, 16 tons 1460 lbs.

Coal remaining on hand at Noon, 31 " 984 "

P. M.																	
1	7	4	43.1	E. S. E. 3/4 E.	S. by E.	2	29.88	72	71	70	68	f. c.	cums.	7	S.
2	8	1	51.2	"	S. E. by S.	2	29.88	74	72	70	70	"	"	7	"
3	7	8	59.0	"	"	2	29.88	75	74	72	71	"	"	6	"
4	7	6	66.6	"	"	2	29.87	75	74	72	71	"	"	6	"
5	7	8	74.4	"	"	2	29.87	76	75	73	73	f. c. z.	"	6	"
6	7	6	82.0	"	"	2	29.87	76	75	74	73	"	"	6	"
7	7	6	89.6	"	E. S. E.	2	29.86	76	75	74	74	"	"	6	"
8	7	2	96.8	East	"	2	29.86	76	75	74	74	"	"	5	"
9	7	9	4.7	"	East	2	29.88	75	74	73	74	"	"	7	"
10	7	3	12.0	"	"	3	29.88	74	74	72	73	"	"	7	"
11	7	0	19.0	"	"	3-4	29.88	73	72	70	72	f. c.	"	7	"
Mid.	6	7	25.7	"	"	3-4	29.88	73	72	70	72	"	"	7	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday July 25th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Wds until 4 A.M.
Overcast cloudy Wds pleasant. Gentle breeze from S.E. At 2:45 set fore Wds aft sail, took it in at 2:50. Ship on course E.S.E. 3/4 E. under steam alone. Sdt log at end of watch 76.0

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 A.M.
Partly clear. Hazy last hour around horizon. Gentle breeze from S.S.E Wds S. by E. Fore Wds aft sail set. Steaming with six boilers. Course E.S.E. 3/4 E. P.L. 5.5

T. J. Fogarty
Ensign U.S.N.

From 8 A.M. to Meridian
Fair Wds pleasant. Light to gentle breeze from S. by E. At 9:30 inspected at quarters. Exercised 1st Wds 2nd Div. at great guns. Powder, Machine guns. Overhauled magazine Wds shell room flood cocks. Mustered boats crews for arm Wds equip. Overhauled boat boxes. Shifted jib. At 10:30 sighted O-sima Island bearing about E. by N. Course E.S.E. 3/4 E.

A. F. Fechteler
Lieut U.S.N.

From Meridian to 4 P.M.
Fair, warm Wds pleasant. Light breeze from S. by E. Wds S.E. by S. At 12:25 took in forsail Wds at 1:40 fore Wds aft sail. Furled forsail, shook reefs out of main topsail Wds furled it. Scraped head booms. On course E.S.E. 3/4 E. At end of watch O-sima south end bore p.c. E.N.E. 1/2 E.

W. H. Hoggatt
Ensign U.S.N.

From 4 to 6 P.M.
Clear Wds pleasant. Hazy around horizon. Light breeze from S.E. by S. At 5:25 sighted No-Sima Island bearing about E. by N. On course E.S.E. 3/4 E. under steam alone. Sat log at end of watch 82.

C. S. Craig
Naval Cadet U.S.N.

From 6 to 8 P.M.
Fair, hazy around horizon. Light breezes from E.S.E. at 7 o'clock changed course from E.S.E. 3/4 E. to East. Steam alone. At end of watch Oho-Sima bore p.c. S. by W. 15 miles distant Wds No Sima (p.c.) E.N.E. 7/8 E. P.L. 96.8

T. J. Fogarty
Ensign U.S.N.

From 8 P.M. to Midnight.
Clear Wds pleasant. Bright moonlight after 8:40 Light breeze from East, freshening during watch to moderate. Course East At 11:50 Cape Sirekami bore (p.c.) N.E. No Sima S. W. 1/4 W.

A. F. Fechteler
Lieut U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut Wds Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Hakodate Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	1	32.8	N.E. ¾ E.	N.E. by E.	3-4			29.88	71	69	68	62	b.c.f.	cum.	6	S.
2	7	1	39.9	"	"	3			29.86	70	69	68	67	"	"	4	"
3	7	0	46.9	"	"	3			29.85	70	67	66	61	"	"	5	"
4	7	3	54.2	"	"	2			29.83	70	67	66	68	"	"	4	"
5	7	7	61.9	N by E.	N.E.	1			29.80	69	67	66	68	"	"	2	"
6	6	4	68.3	Standing in to harbor.	"	1			29.84	69	68	67	68	b.c.z.	"	2	"
7					N.N.W.	1			29.84	70	69	68		"	cum strat.	4	"
8				S.W.	"	1			29.84	71	69	68		"	"	3	"
9				W by S.	"	1			29.85	71	70	68		o.c.	cum	0	"
10				N.E. by E.	"	1			29.84	71	70	69		b.c.z.	"	3	"
11				North	"	1			29.83	73	72	70		"	"	3	"
Noon.				W by N.	S.S.E.	1			29.82	74	73	71		"	"	2	"

Course and distance made good since preceding noon by observations, 137 knots. 8 tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 12 tons 880 lbs.

Coal remaining on hand at Noon, 19 " 1024 "

P. M.																	
1			S.S.E.	S.S.E.	2			29.82	71	70	68	o.c.d.	cum nim.	0	S.
2			S.E. by E.	"	1			29.82	71	70	69	o.c.r.	"	0	"
3			S by E.	"	1			29.81	71	70	69	"	"	0	"
4			"	W.S.W.	1			29.80	70	70	68	o.c.d.	"	0	"
5			W.S.W.	"	1			29.80	70	69	68	b.c.	"	1	"
6			W.N.W.	"	1			29.80	70	69	68	o.c.r.	"	0	"
7			"	"	1			29.79	70	69	68	"	"	0	"
8			"	"	1			29.79	70	69	68	o.c.f.	"	0	"
9			S.E.	E.S.E.	1			29.78	71	70	69	"	"	0	"
10			E. by S.	"	2			29.78	69	69	68	"	"	0	"
11			"	"	1			29.78	69	69	68	"	"	0	"
Mid.			E.S.E.	"	1			29.78	69	69	68	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday July 26th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ed until 4 A. M.

Partly clear, with cloud banks around horizon. to Ed. Passed through thick fog bank at 2 o'clock. Gentle to moderate breze from N.E. by E. At 12:25 changed course to N. E. 3/4 E. Ed at 4 o'clock to N.N.E. Land in sight on stbd. Ed port beams at End of watch.

W.B. Hoggatt
Ensign U. S. N

From 4 to 8 A. M

Cloudy hazy Ed pleasant. Light airs from N.E. Ed N.N.W. At 4:30 changed course to N. by E. pat log 57.6. At 4:50 changed course to N 3/4 W. pat log 60. Standing in to the harbor of Hakodate, changing course frequently. Comdg Officer at the conn. At 6:05 came to with starboard anchor in 6 3/4 fms. water Ed veered to 30 fms. chain at water's edge. At 5:50 hauled in pat. log reading 68.3. Sent boat ashore Ed brought off the mail. Rec'd official visit from boarding officer of French Flagship Turenne, offering usual courtesies. At 6:15 transferred fire to boilers Nos. 1 Ed 3 for distilling At 6:30 hauled fires in boilers nos. 2.4.5.6.7.8. At 7:00 A M Japanese mail steamer Yuman Maru came in to harbor.
draft 13.2" ford. 15' 2" aft.

C. S. Craig
Naval Cadet U. S. N

From 8 A M to Meridian.

Cloudy Ed hazy. Light airs from W. S. W. until last hour when S. S. E. A boarding officer from H. I. R. M. S. Rasboynik Ed the aid to the Governor of Hakodate paid official visits offering usual courtesies. Engaged in cleaning ship. Distilling. C. Olsen (o.s.) reported his term of enlistment as having expired. Bearings at anchor (p.c.): Beacon South Jang. to Fort S. W. 7/8 W., Beacon N. W. by W. 1/8 W.

T. J. Boerum
Ensign U. S. N

From Meridian to 4 P. M.

Cloudy, Rainy. From 2 to 3 o'clock heavy rain. Light airs to light breze from S. S. E. Calm at end of watch. Distilling. Carl Olsen O.S. was discharged at his own request, his term of enlistment having Expired he waiving all claims to consular aid.

A. T. Dennison
Lieut U. S. N

From 4 to 8 P. M.

Cloudy, with rain last half. Light airs from W. S. W. At 6:30 the French man-of-war "Parseval" came in and anchored. Sent a boarding officer to offer the usual courtesies. Distilling.

T. J. Boerum
Ensign U. S. N

From 8 P. M to Midnight.

Cloudy. Foggy. Light airs to light breze from E. S. E. Distilling

A. T. Dennison
Lieut U. S. N

Examined and found to be correct.

C. D. Galloway
Lieut Ed Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,
Moored in the harbor of Hakodate, Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S. E by E	E. S. E.	1			29.78	68	69	68		0. Cf.	cum nimb.	0	S.
2				"	"	1			29.78	69	69	68		"	"	0	"
3				South	"	1			29.78	70	69	68		"	"	0	"
4				S. W.	Calm	0			29.78	70	69	68		b. c.	"	3	"
5				S. E by S.	S. E.	1			29.79	70	69	68		"	cumo	2	"
6				"	"	1			29.80	70	69	68		"	"	1	"
7				"	Calm	0			29.80	70	69	68		0. c.	"	0	"
8				S. W by S.	"	0			29.80	70	69	68		"	"	0	"
9				West	West	1			29.80	71	71	70		b. c.	cum strat.	3	"
10				S. W. by W.	S. W.	2-3			29.81	74	73	72		"	"	4	"
11				S. W.	"	2-3			29.81	76	75	74		"	"	4	"
Noon.				S. W by S.	"	2-3			29.81	76	76	74		b. c. z.	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, 1600 "

Water remaining on hand fit for use at Noon, 2750 "

Coal consumed during the preceding 24 hours, 1 tons 1490 lbs.

Coal remaining on hand at Noon, 17 " 854 "

P. M.												
1	S. W by S.	S W by S.	3	29.80	77	77	74	b. c. z.	cum			
2	"	"	3	29.80	78	78	74	"	"			
3	"	"	3	29.80	79	79	74	"	cir cum.			
4	"	"	3	29.80	79	79	74	"	"			
5	"	"	3	29.80	81	80	76	"	"			
6	W by S.	W by S.	3	29.81	80	78	73	"	"			
7	"	"	2	29.82	78	77	73	"	"			
8	S. W by S.	S. W.	0	29.82	77	77	73	"	"			
9	North	Calm	0	29.82	77	76	73	b. c. z. m.	"			
10	N. E by E.	-	0	29.82	76	75	72	"	cum.			
11	E. N. E.	E. by E.	1	29.84	74	73	71	"	"			
Mid.	"	"	1	29.86	74	73	71	"	"			

under the command of Commander J. F. Jewell, U. S. Navy,

Friday July 27th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and until 4 A.M.
Overcast, with light fog. Calm and light airs from E.S.E. Distilling

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.
Cloudy. Light airs from S.E. Distilling at 7:40 loosed sail to a bunt line

Ensign U.S.N.

From 8 a.m to Meridian:
Cloudy at first. Clearing during watch. First hour light airs from West, then light to gentle breeze from S.W. At 9:20 exercised at fire quarters. Then inspected at quarters, and exercised 1st and 2nd Divs. at great guns and instructed Powder Div. at stations. Fired a torpedo primer. Broke one handspike at gun drill. Broke one boat hook. Comdg Officer paid official visits to French Admiral and Governor of Hakodate. Received visits from Comdg Officer of Parsifal and English Consul.

A.J. Leetham
Lieut U.S.N.

From Meridian to 4 P.M.
Generally clear and warm. Gentle breeze from S.W. by S. Enlisted John W. Auld as Lds. for the cruise. Received a visit from the acting Governor of Yezo. Distilling

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.
Fair and warm. Light to gentle breeze from N by E. to to S.W. by S. At 4:10 furled sail At 4:30 stopped distilling, the tanks being full. Hauled fires.

A.J. Leetham
Lieut U.S.N.

From 8 P.M to Midnight:
Partly clear, pleasant. Calm and light airs from E.S.E.

W.B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

E.K. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Hakodate Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				East	Calm	0			29.81	73	73	71		b. c. f.	cum	7	S.
2				E by S.	"	0			29.82	73	72	71		b. c. m.	cir. cum.	7	"
3				S. E.	"	0			29.82	73	72	71		"	"	4	"
4				East	North	1			29.83	72	72	70		b. c. f.	"	7	"
5				E. by N.	"	1			29.84	73	72	70		"	"	6	"
6				S. E.	S. W.	1			29.86	74	71	70		"	"	8	"
7				S by E.	Calm	0			29.87	74	72	71		b. c. z.	cum	8	"
8				S. E. by E.	"	0			29.88	75	73	72		"	"	8	"
9				S. E.	South	1			29.89	75	73	71		"	"	8	"
10				S. W. by W.	"	1			29.89	76	75	74		b. c.	cir. cum.	8	"
11				S. S. E.	S. E.	1			29.89	77	76	75		"	"	9	"
Noon.				East	"	1			29.88	78	77	76		"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 600 "

Water remaining on hand fit for use at Noon, 2750 "

Coal consumed during the preceding 24 hours, tons 1130 lbs.

Coal remaining on hand at Noon, 16 " 1974 "

P. M.													
1	North	S. E.	1	29.88	80	78	76	b. c.	cir. cum.	7	S.
2	"	Calm	0	29.88	79	78	76	"	"	7	"
3	N. by E.	"	0	29.86	80	78	76	"	"	6	"
4	E. S. E.	S. E.	1	29.85	80	78	76	"	"	6	"
5	S. E. by E.	"	1	29.84	80	79	76	"	"	6	"
6	S. E.	"	1	29.82	80	79	75	"	"	8	"
7	S. S. E.	South	1	29.83	79	79	74	"	"	7	"
8	S. by W.	"	1	29.83	78	77	74	"	"	8	"
9	S. S. E.	Calm	0	29.83	78	77	75	"	"	7	"
10	N. E. by E.	"	0	29.85	78	77	75	"	"	9	"
11	N. by E.	North	1	29.86	78	77	75	b.	clear	10	"
Mid.	E. N. E.	"	1	29.84	77	76	74	"	"	10	"

under the command of Commander T. T. Jewell, U. S. Navy,

Saturday July 28th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A M.
Fair, pleasant. Foggy greater part of watch.
Wet decks. Calm and light airs from North.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 A M.
Clear and warm. Hazy. First hour light variable airs, then calm.

S. [illegible] Lecraw
Lieut U.S.N.

From 8 A.M. to Meridian
Clear and warm. Light airs from South to S.E. Recd an official visit from the Captain of the French Flagship. Turenne. French corvette Primauguet came in at 9:00 a.m. Sent an officer to make usual offes of courtesies. The Commander paid an official visit to the Parseval. Aired bedding

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P. M.
Clear, warm and pleasant. Calms, and light airs from S.E. Condemned by survey, 1 Can, 2½ lbs Roast Beef and 1 can, 3 lbs Tomatoes, and by order of Comdg Officer threw the same overboard. Sent liberty party ashore.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 P. M.
Clear and pleasant. Light airs from S.E. and South. Recd. an official visit from the Captain of the Primauguet.

W. B. Hoggatt
Ensign U.S.N.

From 8 P. M to Midnight.
Clear and pleasant. Calms, and light airs from North. Moon rose at 10:75

C. S. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex., 3d Rate,

Moored in the harbor of Hakodate, Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. E by N.	North	1			29.84	76	74	72		b.	None	10	L.
2				"	"	1			29.83	75	74	72		"	"	10	"
3				E. N. E.	Calm.	0			29.82	75	74	72		b. c.	cirrum	8	"
4				"	"	0			29.82	75	74	72		"	"	6	"
5				"	E. N. E.	1			29.81	73	73	71		"	cirrum.	6	"
6				E. by N.	N. N. W.	1			29.81	75	73	71		"	"	7	"
7				N. E. by E.	"	1			29.80	75	74	72		"	"	9	"
8				"	Calm.	0			29.79	76	76	74		"	"	9	"
9				East	N. E.	1			29.80	78	77	73		"	"	9	"
10				N. N. E.	N. N. E.	2			29.80	77	76	73		b. c. z.	"	8	"
11				N. by E.	"	2			29.80	78	77	75		"	"	7	"
Noon.				N. W.	West	2			29.78	78	77	76		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 91 " 1574 "

P. M.												
1	S. E by E.	S. E.	2	29.75	79	78	75	b. c.	cir. cum.	8	L.
2	"	"	2	29.74	80	79	76	"	"	8	"
3	S. E by S.	"	1	29.73	82	82	78	"	"	9	"
4	W. S. W.	"	1	29.73	82	81	77	"	"	9	"
5	S. W.	Calm.	0	29.71	83	82	77	"	"	9	"
6	North	N. W.	1	29.70	84	80	78	"	"	7	"
7	N by E.	North	2	29.72	81	80	76	"	cum nim.	5	"
8	"	"	2	29.71	79	77	74	"	"	4	"
9	"	"	1	29.70	78	76	73	"	cum.	6	"
10	"	"	1	29.70	78	75	72	"	"	7	"
11	N. N. W.	"	2	29.70	77	75	72	"	"	7	"
Mid.	"	N. N. W.	2	29.69	78	76	73	"	"	7	"

under the command of Commander T. T. Jewell, U. S. Navy,

Sunday July 29th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear and pleasant. Light airs from North. first half. Calm last half. Coal lighters came alongside Bright moonlight

T. J. Fooshee
Ensign U.S.N.

From 4 to 8 A. M.
Clear and pleasant. Calms and light airs from E. & E. and S. S. W. Began coaling at 5:15 finished at 7:30 Recieved 75 tons Takamia coal. M. Fitzgerald C.H. attempted to smuggle liquor when returning from liberty and J. Rogers 2 C.F. returned from liberty tight and abused and threatened Corpl guard. Both were put under strict charge to await action of Commdg Officer

W. B. Taggart
Ensign U.S.N.

From 8 A. M. to Meridian
Clear, warm, hazy and pleasant. Light airs from S. E., S. S. E. and S. W. Washed down decks, cleaned up ship. At 10:45 mustered at quarters. At 10:50 held general muster and read General Order No. 38. Commanding Officer paid official visit to the French ship Primauguet. Barometer falling slowly. A small Japanese mail steamer came in and one left the harbor.

C. S. Craig
Naval Cadet U.S.N.

From Meridian to 4 P. M.
Clear, warm and pleasant. Hazy overhead Light breeze decreasing to light airs from S. E. Barometer falling slowly.

T. J. Fooshee
Ensign U.S.N.

From 4 to 8 P. M.
Fair and pleasant. Calm, and light airs from S. W. and North. Bent sheet chain. Clouding to S. and W. latter part of watch Barometer falling slowly.

C. S. Craig
Naval Cadet U.S.N.

From 8 P. M. to Midnight.
Clear, mild and pleasant. Light airs to breezes from North until last hour, when S. S. W. Barometer stationary.

T. J. Fooshee
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Hakodate Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N by W.	North	2			29.68	76	75	73		b.c.	cumus	7	S.
2				"	"	2			29.68	76	75	73		"	"	6	"
3				"	"	1			29.67	76	75	73		"	"	5	"
4				North	"	1			29.67	74	73	72		"	"	4	"
5				N. W. by N.	N. N. W.	1			29.67	75	74	72		"	"	4	"
6				N. E by N.	Calm.	0			29.71	76	74	72		"	"	3	"
7				E. N. E.	S. S. E.	1			29.71	76	74	73		"	"	2	"
8				N. E. by E.	E. S. E.	1			29.72	75	74	73		"	"	2	"
9				N. N. E.	S. E.	1			29.72	75	74	72		"	cum nim	1	"
10				South	South	1			29.72	76	75	74		o.c.m.	"	0	"
11				N. N. W.	"	2			29.73	76	76	74		o.c.n.	"	0	"
Noon.				N. W.	"	1			29.73	76	75	74		"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2050 "

Coal consumed during the preceding 24 hours, tons 1480 lbs.

Coal remaining on hand at Noon, 91 " 94 "

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.																	
1				S. W by S.	S. E.	1			29.74	77	75	74		o.c.	cum nim.	0	S.
2				"	S. S. E.	1			29.74	78	76	75		"	"	0	"
3				S. S. E.	"	1			29.74	79	77	76		b.c.	cum.	3	"
4				S. S. W.	Calm	0			29.73	79	78	76		"	"	2	"
5				S. W.	"	0			29.73	79	78	76		"	"	2	"
6				S. E.	S. by E.	1			29.75	79	77	76		o.c.n.	"	0	"
7				S. S. W.	"	1			29.76	79	77	75		"	"	0	"
8				South	"	1			29.76	79	76	75		o.c.m.	"	0	"
9				S. W by S.	E. S. E.	1			29.76	77	76	75		"	cum nim	0	"
10				S. E.	S. E.	1			29.76	77	76	75		o.c.n.	"	0	"
11				S. S. E.	"	1			29.76	77	76	75		o.c.m.	"	0	"
Mid.				S. E by S.	"	1			29.76	77	76	75		o.c.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday July 30th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Fair & pleasant. Light airs to light breeze from North.

C. F. Preston
Lieut. U. S. N.

From 4 to 8 A M
Cloudy, hazy & pleasant. Calms & light airs from S. S. E. & E. S. E. Barometer rising. Liberty party returned.

From 8 A. M to Meridian.
Overcast & cloudy, with light falling mist at first, gradually increasing to heavy rain at end of watch. At 9:25 went to quartes; all divisions ready in 3 m. 15 sec. & secured in 6 m. 30 sec. By order of Comdg Officer confined J Rogers (2 C. F.) in Irons for 3 days for threatening the Corpl. of Guard, & M. Fitzgerald (Ft.) for smuggling liquor, for ten (10) days in double irons. Barometer rising very slowly.

C. Craig
Naval Cadet U. S. N.

From Meridian to 4 P. M.
Warm. Cloudy. Calm & light airs from S. E. & S. S. E.

F. J. Boorman
Ensign U. S. N.

From 4 to 8 P. M.
Cloudy, with drizzling rain last two hours. Calm first half, light airs from S. by E. last half. At sunset sent down t. g. yards & masts. Barometer rising slowly.

C. F. Preston
Lieut. U. S. N.

From 8 P. M to Midnight.
Overcast. Cloudy. Occasional rain. Light airs from S. E. & E. S. E.

F. J. Boorman
Ensign U. S. N.

C. F. Preston
Lieut U. S. N.

Examined and found to be correct.

C. D. Calhoun
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Hakodate Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				West	South	1			29.77	78	76	75		b.c.f.	cum nim.	1	S.
2				W by S.	S. E.	1			29.77	78	76	75		"	"	1	"
3				W.S.W.	"	1			29.78	78	76	75		"	"	2	"
4				S.E.	"	1			29.78	77	75	74		"	cir cum.	7	"
5				S.E by S.	"	1			29.78	76	75	74		"	"	2	"
6				S.W.	"	1			29.80	76	75	74		"	Cums.	2	"
7				S.S.W.	Calm	0			29.80	77	75	74		"	"	4	"
8				S. by E.	"	0			29.80	77	75	74		"	"	4	"
9				S.E by S.	S. E.	1			29.80	78	77	76		b.c.	"	5	"
10				"	"	1			29.80	78	78	76		"	cir cum.	6	"
11				"	"	1			29.78	79	78	76		"	"	7	"
Noon.				"	"	1			29.76	79	78	76		"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1700 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 90 " 1934 "

P. M.														
1		S.E.by S	S.E.	2		29.74	80	79	77	b.c.	cir cum.	7	S.	
2		S.E.	"	2		29.72	80	79	77	"	"	6	"	
3		S. by E.	S.S.E.	2		29.71	80	79	76	"	"	4	"	
4		S.E.	S.E.	2		29.70	81	79	76	"	"	2	"	
5		"	"	3		29.69	80	79	71	"	"	2	"	
6		East	E. by S.	2		29.69	81	80	76	"	"	2	"	
7		"	East	2		29.68	80	79	75	"	"	2	"	
8		"	"	2		29.67	79	79	75	"	"	1	"	
9		S.E.	S by E.	2		29.66	77	76	73	"	"	2	"	
10		S.E. by E.	S.E.	1		29.63	77	75	72	b.c.r.	cum nim.	2	"	
11		E.S.E.	"	1		29.61	76	75	72	"	"	2	"	
Mid.		S.E.	"	2		29.69	72	72	70	o.c.r.	nim.	0	"	

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday July 31st ~~Wednesday August 1st~~, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clearing pleasant weather. Light airs from South and S. E.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.
Cloudy and foggy warm. Light airs from S. E. first half calm last half. At 7:35 sent up t. g. mast and yards and loosed sail to a bowline.

F. J. Fromm
Ensign U. S. N.

From 8 A M to Meridian -
Clear and warm. Light airs from S. E. at 9:30 inspected at quarters. Exercised Battalion at Company and Artillery drill.

A. A. Dearborn
Lieut U. S. N.

From Meridian to 4 P. M.
Partly clear, Warm. Light breeze from S. E. and S. S. E. At 1:35 called all hands and furled sail.

W. B. Hoggatt
Ensign U S. N.

From 4 to 8 P. M.
Generally cloudy. Light breeze from E. to S. E. An English fleet of twelve vessels Flagship Imperieuse flying Vice Admirals flag, came in and anchored. The Commander made an official call on the English Vice Admiral. Recd a visit from Comdg officer of Imperieuse. A French gunboat came in and anchored after dark.

A. A. Dearborn
Lieut U S. N.

From 8 P. M to Midnight:
Overcast, with heavy rain last three hours. Light airs and breeze from S by E. and S. E. G. F. Conboy P. M returned from liberty 3 hours overtime, and drunk and by order of Comdg officer was placed under sentry's charge to sober.

W. B. Hoggatt
Ensign U S. N.

Examined and found to be correct.

E. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At anchor in the harbor of Hakodate & on the passage to Yokohama Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				E by S.	East.	2			29.55	71	70	69		o. c. N.	nimb.	0	S.
2				E by N.	"	2			29.50	71	70	69		"	"	0	"
3				E. S. E.	"	1			29.48	71	70	69		"	"	0	"
4				E. by N.	"	1			29.47	72	71	70		"	"	0	"
5				N. E. by N.	N. N. E.	2			29.47	72	71	70		"	"	0	"
6				N. N. W.	"	3-4			29.50	71	69	67		o. c.	"	0	"
7				"	N. N. W.	4			29.51	71	69	67		o. c. r.	"	0	"
8				W. by S.	W. S. W.	3-4			29.58	72	70	68		b. c.	"	6	"
9				N. W.	W N. W.	3			29.61	74	73	72		"	Cum.	4	"
10				Getting under way.	W. by N.	3			29.65	76	73	72		o. c.	"	0	"
11	8.8	8.8		S. E. by E½ E.	W. S. W.	3			29.67	76	73	72	70	b. c.	"	2	"
Noon.	9	4	18.2	"	West	3			29.68	76	73	72	72	"	"	6	"

Course and distance made good since preceding noon by observations, Various (Leaving port) 19 knots. 2 tenths.

Position at Noon:
- Latitude by ~~D. R.~~ Bearings — N. 41 ° 39 ' "
- Longitude by ~~D. R.~~ Bearings — E. 140 ° 56 ' "
- Latitude by observations of ⊙ — ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — ° ' "

Position at 8 a. m.
- Latitude by — ° ' "
- Longitude by — ° ' "

Position at 8 P. M.
- Latitude by D. R. — N. 40 ° 36 ' "
- Longitude by D. R. — E. 141 ° 55 ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1350 "

Coal consumed during the preceding 24 hours, 4 tons 620 lbs.

Coal remaining on hand at Noon, 86 " 1814 "

P. M.																	
1	9	2	27.4	S. E. by E½ E.	West	3			29.70	73	73	71	70	b. c.	cum.	6	S.
2	9	6	37.5	"	N. N. W.	3			29.71	73	73	71	70	"	"	6	"
3	3 6	5 2	40.5 46.7	S. by E. ¼ E.	"	4			29.73	74	74	70	67	"	"	6	"
4	9	0	55.7	"	W. S. W.	4			29.73	72	72	70	67	"		5	"
5	9	2	64.9	"	"	4			29.74	70	69	69	67	"	"	6	"
6	9	6	74.5	"	W. by S.	4			29.75	70	69	69	67	"	"	8	"
7	9	4	83.9	"	S. W.	5			29.76	71	70	69	68	"	"	8	"
8	9	1	93.	"	"	4-5			29.78	71	70	69	68	"	"	8	"
9	7	9	0.9	"	N. W. by N.	3			29.80	71	70	69	67	"	"	9	S.
10	7	5	8.4	S. by E½ E.	"	3			29.85	71	71	70	67	"	cum. strat.	9	"
11	7	7	16.1	"	N. N. W.	3			29.85	72	71	70	68	"	"	9	"
Mid.	7	6	23.7	"	"	3			29.82	72	72	70	68	"	"	9	"

under the command of Commander T. F. Jewell , U. S. Navy,

Wednesday August 1st 1888 , 18 .

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Overcast, cloudy and rainy. Light airs to light breezes from East. At 3:00 started fires in boilers nos. 2, 4, 5, 6, 7 & 8. Barometer falling

C. S. Craig.
Naval Cadet U. S. N.

From 4 to 8 A M.

First three hours rainy with light winds from N. N. E. hauling to N. W & freshening. At end of watch gentle to moderate breeze from W. S. W. Fair and pleasant. Barometer rising rapidly. French gunboat which came in last night shifted anchorage. Sent an officer to board her. At 4.15 banked fires.

C. S. Craig
Lieut U. S. N.

From 8 a m to Meridian:

Clearing pleasant weather. Gentle breeze from W. S. W. to W. N. W. Made preparations for sea. At 9:35 called all hands up anchor, got under way at 9:45 and stood out of harbor with the Comdg Officer at the conn. At 9:57 put over pat log reading zero. Took departure at 10:37 E. point Hakodate N. E by N. Mussel Rk. light N. W by W. 3/4 W. D. L. 5.5. At 10:30 made plain sail to t. g. sails, and at 11:30 crossed royal yards and set royals and flying jib. At 10:45 set course S. E. by E 1/2 E. At 10:45 went to quarters and secured battery for sea. J. H. Bussman Corpl. U. S. M. C. and A Smions (O.S.) absent without leave. At end of watch, on course S. E by E 1/2 E. under steam in six boilers and plain sail to royals Ships draft 15.7" fwd. 15' 8" aft

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P. M.

Fair and pleasant. Gentle to moderate breezes from West, W. N. W. and W. S. W. At 2.25 changed course to S. by E 1/2 E. pat. log 40.5 At 3.30 mid came out nearly ahead, took in and furled all square sail except fore sail. Carried away leech of fore sail in setting it and engaged in repairing it. Salmiak's mate working on jib. At 3.55 hauled down flying jib. About 3.30 mut off to Eastward of course for a few minutes until sail was clewed up. At end of watch under fore and aft sail except flying jib and steaming with six boilers. Pat log 56.7.

C. S. Craig.
Naval Cadet U. S. N.

From 4 to 6 P. M.

Clear and pleasant. Mod. breeze from W. S. W. and W by S. Course S. by E 1/4 E. At 4:15 set fore sail, main topsail and t gallant sail. Sent new fore topsail. Land in sight on stbd. hand. D. L. 74.5

J. F. Luman
Ensign U. S. N.

From 6 to 8 P. M.

Clear and pleasant. Moderate to stiff breeze from N. W. Mod. swell from South. Hauled down fore topmast staysail. Set fore t gt sail. At end of watch under plain sail to t gt. sails except fore topmast staysail. Course S. by E 1/2 E. Land in sight on stbd. hand. At sundown, mustered at quarters

C. S. Craig
Lieut U. S. N.

From 8 P. M to Midnight:

Clear and pleasant. Gentle breeze from N. W by N. and N. N. W. falling light at times and shifting to N. E. At 9.00 changed course to S. by E 1/2 E. at 9:10 took in spanker and M. trysail. On course S. by E 1/2 E. under steam and plain sail to t. g. sails except spanker M. trysail and M. staysail. Long Southerly swell

W. B. Hoggatt
Ensign U. S. N

Examined and found to be correct.

T. D. Galloway Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea making the passage from Hakodate to Yokohama, Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	3	31.0	S. by E & E.	Variable	1			29.84	73	72	70	67	f.c.	cum strat.		S. L.
2	7	1	38.1	"	"	2			29.85	73	72	70	67	"	"		"
3	7	2	45.3	"	S. S. E.	2			29.86	72	71	69	67	"	"		"
4	7	2	52.5	"	"	2			29.86	72	71	69	66	"	"		"
5	5	5 7	54.0 59.7	S. S. W.	"	1			29.87	70	68	67	66	"	cir. cum & strat.		"
6	7	5	67.2	"	"	1			29.88	69	68	66	64	"	"		"
7	7	4	74.6	"	"	1			29.89	69	67	66	64	"	"		"
8	3	4	78.0	Swinging Ship	N. E.	1			29.89	70	68	67	64	"	"		"
9	1	7	79.7	S. S. W.	S. S. E.	2			29.89	71	69	67	65	"	"		"
10	7	1	86.8	"	South	2			29.90	71	69	67	67	"	"		"
11	7	4	94.2	"	"	2			29.91	71	70	67	65	"	"		"
Noon.	6	2	100.4	"	"	2			29.92	73	71	69	65	"	"		"

Course and distance made good since preceding ~~noon by observations~~ 2.25 P.M. (from Noon. P.L. 162.2) E. 78° S. 156 knots. tenths.

Position at Noon:
- Latitude by D. R. N. 38 ° 53' "
- Longitude by D. R. E. 142 ° 07' "
- Latitude by observations of ⊙ N. 38 ° 53' "
- Longitude by chronometer from Forenoon Observations of ⊙ E. 142 ° 12' "

Position at 8 a. m.
- Latitude by D. R. N 39 ° 18' "
- Longitude by Obs. E. 142 ° 22' "

Position at 8 P. M.
- Latitude by D. R. N. 37 ° 57' "
- Longitude by D. R. E 141 ° 54' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1000 "

Coal consumed during the preceding 24 hours, 15 tons 370 lbs.

Coal remaining on hand at Noon, 71 " ~~944~~ "

P. M.																	
1	5	8	6.2	S. S. W.	S by E.	2			29.93	74	70	68	64	f. c	Circum & strat	5	S.
2	6	6	12.8	"	"	2			29.90	74	71	69	68	"	"	4	"
3	7	5	20.3	"	"	2			29.90	74	71	69	68	"	"	4	"
4	7	5	27.8	"	"	2			29.91	74	72	70	68	"	"	4	"
5	7	1	34.9	"	"	1			29.92	75	74	72	68	"	"	4	"
6	7	0	41.9	S by W & W.	"	1			29.94	75	74	72	69	"	"	4	"
7	7	3	49.2	"	"	1			29.95	75	74	73	69	"	Circum strat and Nimbus	2	"
8	6	6	56.7	"	"	2			29.93	75	75	73	69	f. c. l.	"	2	"
9	7	2	63.9	"	"	1			29.94	75	76	74	71	f. c.	"	3	"
10	7	6	71.5	"	"	1			29.94	75	76	74	71	f. c. f.	cum.	6	"
11	7	5	79.0	"	"	1			29.93	74	74	73	70	"	"	5	"
Mid.	7	2	86.2	"	"	1			29.92	74	73	72	71	"	"	5	"

under the command of Commander T. T. Jewell, U. S. Navy,

Thursday August 2nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Clear and pleasant. Light variable winds, first part watch, and from S.S.E. latter part. At 12:35 mid came out ahead, took in all sail, furled all square sail. At end of watch under steam alone, on course S. by E. ½ E. pat log. 52.5

C. S. Clark
Naval Cadet U. S. N.

From 4 to 8 A.M.
Clear and pleasant. Hazy over land. Light airs from S.S.E. until last hour, when N.E. At 4:15 changed course to S.S.W. At 7:30 hauled in pat. log reading 78. Began to swing ship for compass deviation. Land along stbd. hand.

T. J. Loomis
Ensign U. S. N.

From 8 A.M. to Meridian.
Fair and pleasant. Light breeze from S.S.E. and South. Moderate swell from S.S.E. At 8:48 finished swinging ship. Put over pat. log and steamed on course S.S.W. At 8:50 set. and at 10:50 took in fore and aft sail. At 9:30 beat to general quarters Cast loose battery and secured again immediately. At 11.00 called all hands and shifted topsails. Land in sight on stbd hand. Released John Rogers 2 C.F. from confinement for medical treatment

A. J. Dennison
Lieut U. S. N

From Meridian to 4 P.M.
Partly clear, pleasant. Light breeze from S. by E. On course S.S.W. under steam alone. Smooth sea, with long southerly swell

W. L. Hoggatt
Ensign U. S. N.

From 4 to 6 P.M.
Fair and pleasant. Light airs from S. by E. At 5:00 changed course to S. by W ½ W. pat. log 34.9. Sighted several large whales and schools of small fish. Under steam alone on course S by W ½ W. pat log at end of watch 41.9

C. S. Clark
Naval Cadet U. S. N.

From 6 to 8 P.M.
Cloudy with cir-cum, cir-strat. and cum. clouds. Lightning to SE and W^d. last hour. Light breeze from S. by E. Steaming course S by W ½ W. P. L. 56.7

T. J. Loomis
Ensign U. S. N.

From 8 P.M. to Midnight.
First hour cloudy. Last three hours generally foggy. Fog lifting at times. Light airs from S. by E. Course S. by W. ½ W. Under steam alone. At 11:45 released M. Fitzgerald (C.H.) from confinement to stand watch in engine room.

A. J. Dennison
Lieut U. S. N.

Examined and found to be correct.

T. D. Gallowhur
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Hakodate to Yokohama Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	4	93.6	S. by W. ½ W.	S by E.	2			29.91	73	72	71	70	b. c. w.	cum.	7	S.
2	7	1	100.7	"	S. S. W.	3			29.92	73	72	71	69	"	"	7	"
3	7	1	7.8	"	S. W. by S.	3			29.92	73	72	71	69	"	"	8	"
4	6	6	14.4	"	"	3			29.91	73	72	71	69	"	"	8	"
5	6	2	20.6	"	"	3			29.95	73	72	71	69	b. c.	cum strat.	8	"
6	6	3	26.9	"	"	3			29.96	73	73	72	69	o. c. f.	cum.	0	"
7	6	7	33.6	"	"	3			29.98	74	73	72	69	"	"	0	"
8	6	7	40.6	"	S. S. W.	2			30.00	75	73	72	69	b. o. f.	"	2	"
9	6	5	47.1	"	"	2			30.00	75	73	72	69	"	cir cum.	8	"
10	6	5	53.6	S. W. by S.	"	3			30.00	75	74	73	69	b. c. z.	"	8	"
11	6	8	60.4	"	"	3			30.00	76	75	73	69	"	"	9	"
Noon.	7	1	67.5	"	"	3			30.00	77	76	73	69	"	"	9	"

Course and distance made good since preceding noon by observations, West 73° S. 167.1 knots. tenths.

Position at Noon:
- Latitude by D. R. — S. 36 ° 13' "
- Longitude by D. R. — E. 141 ° 22' "
- Latitude by observations of ⊙ — S. 36 ° 17' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E. 141 ° 26' "

Position at 8 a. m.
- Latitude by D. R. — S. 36 ° 36' "
- Longitude by D. R. — E. 141 ° 34' "

Position at 8 P. M.
- Latitude by D. R. — S. 35 ° 32 "
- Longitude by D. R. — E 140 ° 51' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 650 "

Coal consumed during the preceding 24 hours, 12 tons 1690 lbs.

Coal remaining on hand at Noon, 58 " 1494 "

P. M.															
1	7	0	74.5	S. W. by S.	S. S. W.	3	30.00	79	76	74	75	b. c. z.	cir cum.	8	L.
2	6	9	81.4	"	"	3-4	29.99	79	78	76	75	"	"	8	"
3	7	0	88.4	"	S. W.	3-4	29.99	79	78	75	73	"	cum.	8	"
4	6	9	95.3	"	"	3-4	29.99	79	78	75	73	"	"	8	"
5	7	1	2.4	S. W.	S by W.	3	29.99	77	75	73	70	b. c.	cir cum.	7	"
6	7	2	9.6	"	"	3	29.99	77	75	73	68	"	"	8	"
7	7	4	17.0	"	"	3	30.00	77	74	73	68	"	"	8	"
8	7	0	24.0	S. W. ½ S.	"	3	30.00	75	74	73	67	"	"	7	"
9	7	1	31.1	"	"	3	30.00	76	75	74	67	"	"	9	"
10	6	7	37.8	"	"	3	30.01	75	74	73	67	"	"	9	"
11	7	2	45.0	"	"	3	30.02	75	74	73	67	"	"	9	"
Mid.	7	1	52.1	"	"	3	30.02	76	75	74	67	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday August 3d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Generally clear and pleasant. Mod. dew fall. Light to gentle breezes from S. by E. to S. W. by S. On course S. by W ½ W. under steam alone.
W. W. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.
Fair and pleasant until 6:00 A M. when very foggy. Gentle breezes from S. W by S. and S. S. W. Under steam alone, on course S. W by W ½ W. Pat. log at end of watch 40.6
C. A. Craig
Naval Cadet U. S. N.

From 8 A. M to Meridian.
Clear and pleasant. Navy around horizon. Heavy fog first half-hour of watch. Light, increasing to gentle breeze from S. S. W. Steaming course, S by W ½ W. until 9:25 When changed to S. W by S. At 9:30 inspected at quarters. Exercised 1st Div. at singlesticks, 2nd and Nav. Div. at rifles and Powder Div. at stations. P. L. 67.5
T. J. Sowers
Ensign U. S. N

From Meridian to 4 P. M.
Clear and pleasant. Hazy. Gentle to moderate breeze from S. S. W and S by W. Long swell from South. Under steam alone. Course S. W by S. Board of survey condemned to be thrown overboard, a three lb. can of tomatoes
A. A. Lechtum
Lieut U. S. N.

From 4 to 6 P. M.
Clear and pleasant. Gentle breeze from S by W. At 4:00 sighted land 1½ pts. on stbd bow. At 4:28 changed course to S. W. P. L. 98.5. At 4:35 set fore and aft sail. Took it in at 4:47. At 4:50 slowed to one bell on entering discolored water. Went ahead 4 bells at 4:53. Started distilling. At end of watch. Imboya Lt. Hse. bore p. c. S. W. by W ¾ W.
W. W. Hoggatt
Ensign U. S. N.

From 6 to 8 P. M.
Clear and pleasant, gentle breeze from S by W. At 6:55 exercised at fire quarters. At 7:07 Imboya Saki Lt. bore p. c. S. W. dist 2.3 miles. At 7:15 changed course to S. W ½ S. pat. log 18.6 and at 7:35 to S. W ½ S. pat log 20.9 Sighted several sail. Long heavy swell, ship rolling easily. At end of watch under steam alone on course S. W. ½ S. pat. log 24. Imboya Saki Lt. bore p. c. N. N. E.
C. A. Craig
Naval Cadet U. S. N.

From 8 P. M to Midnight.
Clear and cool. Mod. dew. Gentle breeze from S by W. Steaming course S. W ½ S. At 10:25 Imboya Saki Lt. disappeared bearing N. E ½ N. Pat. log reading 40.5. Mod. swell from S. ship rolling easily P. L. 52.1
T. J. Sowers
Ensign U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Hakodate to Yokohama Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	9	59.0	S. by E.	S. S. E.	3			30.00	76	76	74	74	b. c.	cir cum	7	S.
2	6	9	65.9	"	"	1-2			30.00	76	76	74	75	"	"	7	"
3	7	5	73.4	S. by W.	"	1-2			30.00	77	76	75	75	"	"	8	"
4	7	3	80.7	"	"	1-2			30.00	78	76	75	75	"	"	7	"
5	6	9	87.6	W by S.	S. W.	2			30.02	78	76	75	75	"	cumu	6	"
6	6	9	94.5	S. by W.	"	1			30.03	78	76	75	73	"	"	6	"
7	6	9	101.4	West	"	1			30.03	78	76	75	71	"	"	5	"
8	7	3	8.7	N. W.	"	1			30.03	79	78	77	78	"	"	5	"
9	7	1	15.8	N. 3/4 E.	"	1			30.04	80	79	78	78	"	"	5	"
10	7	4	23.2	North	E. S. E.	1			30.05	80	79	78	78	"	"	4	"
11	7	8	31.0	N. by E.	Calm	0			30.06	81	81	79	77	"	"	4	"
Noon.	7	8	38.8	N. W. E.	S by W.	2			30.06	81	80	79	78	"	"	4	"

Course and distance made good since preceding noon by observations (various) R Log. 171 knots. 7 tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, 1200 "

Water remaining on hand fit for use at Noon, 1500 "

Coal consumed during the preceding 24 hours, 14 tons 1620 lbs.

Coal remaining on hand at Noon, 43 " 2114 "

P. M.													
1	6	44.9	Standing up	South	3	30.02	82	81	78	l. o. z.	cir cum	6	S.
2	5	9	48.8	the bay.	"	3	30.02	82	83	80	"	"	6	"
3				S. S. E.	"	3	30.02	84	84	79	"	"	6	"
4				"	"	2	30.02	84	84	79	"	"	6	"
5				"	"	2	30.02	84	83	79	"	"	4	"
6				S. by E.	"	2	30.02	84	83	79	"	"	2	"
7				"	"	2	30.03	84	83	79	"	"	2	"
8				"	"	2	30.05	84	83	79	"	"	2	"
9				"	"	2	30.06	82	82	79	"	"	4	"
10				"	"	2	30.06	82	82	79	"	"	4	"
11				S. S. E.	"	2	30.07	82	82	79	"	cumu	4	"
Mid.				South.	"	2	30.05	81	81	79	l. c. k.	"	3	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday August 4th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.

Clear & pleasant. Bright starlight. Light airs from S.S.E. At 1.45 sounded in 34 fms. At 2.00 changed course to S.W.by W. At 2:30 sounded in 55 fms. & at 3.00 in 100 fms. At 2:15 set fore & aft sail except M. trysail.

C. T. Leary
Lieut. U.S.N.

From 4 to 8 A.M.

Generally clear, pleasant. Light airs & breezs from S.W. At 4:15 sighted St. Sima Lt. bearing p.c. N.by E. Changed course as follows: 4:20 N.by E. P.L. 87.8, at 5:30 to N.E.by N. P.L. 91.3, at 5:46 to E.N.by N. P.L. 92.4, at 6:43 to N.at E. P.L. 99.3, & at 7:50 to N.W. P.L. 7.4. At 5:25 took in fore & aft sail & at 7:30 set it again. At 7:50 crossed t.g. yards & royal yards. At end of watch on course N.W. St. Sima Lt. Ho. bearing N.by E.½E. Distilling. At 6:35 St. Sima Lt. bore (p.c.) N.N.W.½W. dist. 3 miles. P Log 98.5

W. B. Goggatt
Ensign U.S.N.

From 8 to Meridian

Fair & pleasant. Light airs to light breezs from E.S.E. & S.by W. Light shower of rain about 10:00. At 8:20 took in fore & aft sail & changed course to N.N.W. pat. log 11.1 At 8:47 to N.¾E. pat. log 14:3, at 9:25 to N.orth pat log 18.6. Standing up Geddo Bay, changing course frequently to clear vessels, making about N.orth. Unbent royals, flying jib & fore topmast staysail & M. trysail. Passed through very disturbed waters & tide rips off Cape Krug. Pat. Log at end of watch 38.8

C. D. Craig
Naval Cadet U.S.N.

From Meridian to 4 P.M.

Fair, warm & hazy. Gentle to light breezs from South. Steaming up the Bay of Geddo, Captain on Nav. at the conn. At 12:35 met U.S.F.S. Brooklyn & U.S.S. Marion steaming down the bay. & exchanged gen. signals. Sent a boat to Quarantine steamer & at 1.15 proceeded on course. At 2.75 came to with port anchor in 4¾ fms. water. Moored with mooring swivel, 30 fms. on both chains. Bearing from anchorage: Red Buoy E.¾S. Eng. Hatch Lt. N.¼E. Eng. Flagstaff (stonehouse) S.¾W. Bent chain. Comdg Officer paid an official visit to Monbacy. Distilling. Ships draft, 13' 2" fwd. 15' 4" aft.

T. J. Lowrie
Ensign U.S.N.

From 4 to 8 P.M.

Cloudy, hazy & warm. Light breezs from South. B. F. Walling U.S.Navy reported for duty on board this vessel. Rec. on board in Pay Sept. 150 Draw hats. Distilling. The Japanese mail steamer Hiago came in

C. D. Craig
Naval Cadet U.S.N.

From 8 P.M. to Midnight.

Clear, cool & pleasant, passing shower last hour). Light breezs from South. Distilling.

T. J. Lowrie
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Yokohama Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S. by E	South	2			30.02	79	79	77		b.c.f.	cum nim.	6	S.
2				"	"	2			30.01	79	79	77		b.c.	cir cum.	8	"
3				"	"	2			30.00	80	79	78		"	"	7	"
4				"	"	2			30.00	80	79	78		"	"	6	"
5				S. by W.	"	2			30.01	80	78	77		b.c.d.	cum nim.	2	"
6				"	"	2			30.01	80	78	76		b.c.	cir cum nimb.	3	"
7				"	"	2			30.01	80	78	76		"	cir. cum	5	"
8				"	S. by W.	2			30.03	81	80	78		"	"	4	"
9				"	"	2			30.06	82	81	79		o.c.n.	cum nim.	0	"
10				South	"	2			30.07	82	81	80		b.c.	cumo.	6	"
11				"	"	2			30.07	84	82	80		"	"	7	"
Noon.				"	"	2			30.05	84	83	80		"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, 1850 "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, 1 tons 2210 lbs.

Coal remaining on hand at Noon, 41 " 2144 "

P. M.										
1	South	S by W.	3	30.02	84	84	80	b.c.	cum	6	S.
2	"	"	3	30.00	85	84	80	"	cir cum.	5	"
3	"	"	3	30.00	85	84	80	"	"	5	"
4	"	"	3	30.00	86	84	80	"	"	6	"
5	"	"	3	30.00	86	84	80	"	"	7	"
6	"	"	3	30.00	84	83	79	"	"	7	"
7	"	"	3	30.00	83	81	78	"	"	6	"
8	"	"	3	30.00	82	81	78	"	"	7	"
9	"	South.	2	30.02	82	81	78	"	"	8	"
10	S. E.	"	2-3	30.02	82	81	78	"	"	8	"
11	"	"	2-3	30.02	82	81	78	"	"	8	"
Mid.	"	"	3	30.02	82	81	78	"	"	7	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday August 5th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear and warm. First hour passing showers.
Light breeze from South.

A. T. Scanlon
Lieut U. S. N.

From 4 to 8 A. M.
Cloudy and pleasant. Light breeze from South and S. W. Drizzling rain first hours. Lowered and scraped main trysail gaff. Distilling

A. Craig
Naval Cadet U. S. N.

From 8 A M to Meridian
Cloudy, increasing to fair weather. Light breeze from S by W. At 9:35 Comdg Officer inspected crew at quarters. At 9:55 called all hands to muster and read general court martial orders. At 11.00 hauled fires in Nos. 1 and 3 boilers and stopped distilling

T. J. Loomis
Ensign U S. N.

From Meridian to 4 P. M.
Fair and warm. Gentle breeze from S. by W.

From 4 to 8 P. M.

A. T. Scanlon
Lieut U. S. N.

Clear, cool and pleasant. Gentle breeze from S by W.
Barometer steady.

T. J. Loomis
Ensign U. S. N.

From 8 P. M to Midnight:
Clear and warm. Light to gentle breeze from South.

A. T. Scanlon
Lieut. U. S. N.

Examined and found to be correct.

E. D. Galloway
Lieut. and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S. by E.	South	3			30.02	82	81	78		b.c.	cir cum.	7	S.
2				"	"	3			30.02	82	81	78		"	"	7	"
3				"	"	3			30.02	82	81	78		"	cum strat.	7	"
4				"	"	4			30.01	81	81	78		"	"	6	"
5				S. by W.	S. by W.	3			30.00	81	80	77		"	"	7	"
6				S. S. W.	"	3			30.00	81	80	77		"	"	7	"
7				S by W.	"	3			30.00	81	80	77		"	"	8	"
8				"	"	3			30.00	83	81	78		"	"	7	"
9				"	S. S. W.	3			30.01	84	83	78		"	cir cum.	7	"
10				S. S. W.	"	3-4			30.02	85	83	78		"	"	7	"
11				South	"	3-4			30.02	85	84	79		"	"	5	"
Noon.				"	"	3-4			30.01	86	84	79		"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, tons ~~400~~ lbs.

Coal remaining on hand at Noon, 41 " 1744 "

P. M.												
1	South	South	4	30.01	86	84	79	b.c.	cir cum.	6	S.
2	"	"	4	30.01	86	84	79	"	"	6	"
3	"	"	4	30.00	86	84	79	"	"	8	"
4	S by W.	"	4	30.00	86	85	80	"	"	8	"
5	"	S by W.	4	29.99	86	85	80	"	"	8	"
6	"	"	3	29.99	86	84	79	"	"	8	"
7	"	S. S. W.	3	30.00	84	82	77	"	"	7	"
8	S. S. W.	"	3	30.01	83	82	78	"	"	8	"
9	"	"	3	30.02	83	82	78	b.c.l.	"	8	"
10	"	"	3	30.03	83	81	78	"	"	8	"
11	S by W.	"	2-4	30.03	82	80	78	l.c.g.l.	"	8	"
Mid.	"	"	2-4	30.03	82	80	78	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday August 6th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M
Clear and pleasant. Gentle to moderate breeze from South. J. Sudzuki Lds. returned from liberty drunk, and by order of Comdg. Officer, was placed under sentry's charge to sober

W. P. Woggatt
Ensign U. S. N.

From 4 to 8 A. M.
Clear, cool and pleasant. Gentle breeze from S. by W. Examined dry gun-cotton and found it in good condition

F. Foorman
Ensign U. S. N.

From 8 A. M to Meridian
Fair and warm. Gentle to moderate breeze from S. S. W. At 9.30 exercised at general quarters. At 8.45 made Sut. Signal Monocacy answered ijrii. Loosed sail to a bowline Engaged in scrubbing m. yard and m. mast and miz. mast. Overhauled Magazine and shell room flood cocks

A. T. Leighton
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and warm. Moderate breeze from South. At 1.00 furled and unbent all sail. Transferred to U. S. Naval Hospital C. Campbell (sea), S. Shelton (sea), Myles Sears (sea) and Privt. N. McK. Graham U. S. M. C. Took morning swivel from stbd chain. Clear hawse.

W. P. Woggatt
Ensign U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Gentle to moderate breeze from S. S. W. and S by W.

A. T. Leighton
Lieut U. S. N.

From 8 P. M to Midnight
Clear and pleasant. Light to moderate breeze in squalls from S. S. W. Lightning to the Nd and Wd Clear hawse.

W. P. Woggatt
Ensign U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S. by W.	S. by W.	3			30,02	80	80	76		b. c. g.	cir cum.	9	S.
2				"	"	4			30.02	80	80	75		"	"	9	"
3				"	"	3			30.02	80	79	76		"	"	9	"
4				"	"	2			30.02	80	79	75		b. c.	"	9	"
5				S. W.	"	2			30.02	80	79	75		"	"	9	"
6				"	"	2			30.02	80	79	75		"	"	9	"
7				S. W. by W.	S. S. W.	2			30.03	81	80	76		"	"	9	"
8				S. S. W.	"	2			30.03	82	81	77		"	"	9	"
9				"	"	2			30.08	84	81	79		"	"	9	"
10				S by W.	"	2			30.09	84	83	79		"	"	9	"
11				"	S. by W.	3			30.09	84	83	79		"	"	8	"
Noon.				"	"	4			30.09	84	83	79		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2300 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 41 " 1344 "

P. M.														
1			S by E.	S. S. W.	4	30.07	85	84	78	b. c.	cir cum.	9	S.
2			South	"	4	30.05	85	85	79	"	"	9	"
3			"	"	4	30.04	86	85	79	"	"	9	"
4			S. by W.	"	4	30.04	86	85	78	"	"	9	"
5			"	"	4	30.04	86	85	79	"	"	9	"
6			"	"	3	30.06	86	85	79	"	"	8	"
7			"	"	3	30.07	86	85	79	"	"	7	"
8			S. S. W.	"	2	30.08	84	82	79	"	"	8	"
9			S. by W.	"	2	30.08	81	80	76	"	"	8	"
10			S. S. W.	"	2	30.09	81	79	76	"	"	8	"
11			"	"	3	30.10	81	79	76	"	"	9	"
Mid.			"	"	3	30.10	80	79	75	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday August 7th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear and pleasant. Light to moderate breezes from S by W. and with light squalls. Clear Hawse.

C. D. Craig
Naval Cadet U. S. N.

From 4 to 8 A. M.
Clear and pleasant. Light breeze from S. S. W. and S. by W. Clear hawse.

A. [illegible]
Lieut. U. S. N.

From 8 A. M. to Meridian
Clear, warm and pleasant. Light to mod. breeze from S by W. and S. S. W. Engaged in painting ship outside. Recd an official visit from the Comdg Officer of the Monocacy. Board of Survey on articles in Equipment, Construction and Navigation Depts. met. Clear hawse.

L. B. Stoggatt
Ensign U. S. N.

From Meridian to 4 P. M.
Clear warm and pleasant. Moderate breezes from S. S. W. Engaged in painting hammock cloths and outside of ship. Scraped 60 pdr. Gun. Albert Hansen (7 C.) left the ship on one week's leave. Clear hawse.

C. D. Craig
Naval Cadet U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Light to moderate breezes from S. S. W. Loaded port broadside guns with blank cartridges. Clear hawse.

L. B. Stoggatt
Ensign U. S. N.

From 8 P. M. to Midnight.
Clear and pleasant. Gentle to moderate breezes from S. S. W. Clear hawse.

C. D. Craig
Naval Cadet U. S. N.

Examined and found to be correct.

T. D. Galloway
Lieut. and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Heads	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S. by W.	South				30.10	80	79	74		b.c.g.	cir cum.	8	S.
2				"	"				30.10	80	79	74		"	"	7	"
3				S. S. W.	S. W.				30.10	80	79	74		"	"	7	"
4				"	"				30.10	80	79	74		"	"	7	"
5				S. W. by W.	S. W. by W.				30.10	80	79	75		b.c.	"	6	"
6				"	"				30.11	80	78	75		"	"	6	"
7				"	S. W.				30.11	80	79	76		"	"	7	"
8				W. S. W.	W. S. W.				30.13	82	80	77		"	"	8	"
9				S. W.	"				30.14	83	81	78		"	"	8	"
10				S. S. W.	"				30.14	83	82	78		"	"	8	"
11				"	"				30.13	84	83	78		"	"	8	"
Noon.				"	"				30.13	84	84	78		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1950 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 41 " 944 "

P. M.									
1	S. by W.	S. S. W.	3	30.13	86	85	79	c.c.	cir cum. 8 S.
2	South	"	3	30.13	86	85	79	"	" 8 "
3	"	"	3	30.12	87	85	79	"	" 8 "
4	"	"	3	30.13	87	85	79	"	" 8 "
5	"	"	3	30.10	88	85	79	"	" 8 "
6	"	South	2	30.10	86	84	78	"	" 7 "
7	S. S. W.	S. S. W.	2	30.10	83	82	77	"	" 7 "
8	S. W.	"	2	30.10	82	81	77	"	" 7 "
9	"	"	2	30.10	82	80	77	"	" 7 "
10	"	"	2	30.10	81	79	76	"	" 7 "
11	S. by W.	"	2	30.11	83	80	76	"	" 7 "
Mid.	S. W. by S.	"	2	30.12	81	79	75	"	" 7 "

under the command of Commander F. F. Jewell, U. S. Navy,

Wednesday August 8th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A M.
Clear and pleasant. Gentle breezs from South and S.W. Squally. Clear hawse.

F. J. Boomer
Ensign U. S. N.

From 4 to 8 A. M.
Clear and pleasant. Light to gentle breezs from S.W to W.S.W. Recd for issue in Pay Dept. 108¾ lbs. each of fresh beef and vegetables and 87 lbs. fresh bread. Clear hawse. Withdrew charges from IX in. guns.

W. W. Huggett
Ensign U S.N.

From 8 A M. to Meridian.
Clear, warm and pleasant. Light to gentle breezes from W.S.W. Broke the lid and fastening screws of canister box. At 9:30 Mustered crew at quarters for inspection. Exercised at stations. At 9:50 exercised at away all boats, armed and equipped for distant service. At 10:20 the O. and O. steamship Oceanic left the harbor for America. The Japanese Light-house Tender Meji left the harbor. At 8:15 released John Rogers (2 C.F.) from confinement and restored him to duty, his time of confinement having expired. Clear hawse.

C. S. Craig.
Naval Cadet U. S. N.

From Meridian to 4 P. M.
Clear, warm and pleasant. Gentle breezs from S.S.W. Took off mooring swivel from port chain. Clear hawse. Expended two (2) ten (10) lbs. charges of powder for broadside guns.

F. J. Boomer
Ensign U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Light airs from S.S.W. The English steamer Bothnard, Greenock came into the harbor. Clear hawse. Sailmaker's Mate at work on yard covers.

C. S. Craig.
Naval Cadet U. S. N.

From 8 P. M to Midnight.
Clear and pleasant. Light breezs from S. W. Clear hawse.

F. J. Boomer
Ensign U. S. N.

Examined and found to be correct.

E. K. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Yokohama Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Stbds Head.													
A. M.																	
1				S. by W.	S. S. W.	1-3			30.12	81	79	75		b. c.	Cir Cum.	6	S.
2				S. S. W.	S. W.	1			30.12	81	78	75		"	"	6	"
3				S. W. by W.	"	1			30.11	80	78	75		"	"	6	"
4				"	Calm	0			30.11	80	79	76		"	"	9	"
5				W. N. W.	"	0			30.12	79	79	76		"	"	7	"
6				N. W.	N. N. W.	1			30.13	80	80	77		"	"	7	"
7				"	"	1			30.14	80	80	77		b. c. z	"	6	"
8				"	"	1			30.14	81	80	77		"	"	7	"
9				"	"	1			30.14	83	81	79		b. c.	"	8	"
10				N. E.	N. E by N.	1			30.14	83	81	79		"	"	8	"
11				S. E.	S. E.	1			30.14	83	81	79		"	"	7	"
Noon.				"	"	1			30.12	85	83	80		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ☉ ° ′ ″

Longitude by chronometer from Forenoon Observations of ☉ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ☉ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ☉ observed at " ° ′ ″

Variation of the Compass by Azimuth ☉ observed at " ° ′ ″

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 41 " 544 "

P. M.								
1	S. E.	S. E by S.	1	30.12	86	87	80	b. c. cir cum.	8	S.
2	"	"	1	30.13	87	86	81	" "	8	"
3	S. E by S.	"	1	30.10	88	86	81	" "	8	"
4	South	"	1	30.10	89	86	81	" "	8	"
5	"	S. E.	2	30.10	91	87	81	" "	8	"
6	W. by N.	"	2	30.10	87	85	80	" "	9	"
7	N. W. W.	"	1	30.10	82	84	80	" "	9	"
8	N. by W.	"	1	30.10	87	84	80	" "	8	"
9	"	North	1	30.10	86	83	80	" "	9	"
10	"	"	1	30.10	85	83	80	" "	8	"
11	N by E.	"	1	30.10	84	83	80	" "	7	"
Mid.	N. N. E.	"	1	30.10	83	81	79	" "	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday August 9th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Clear pleasant weather. Light airs to gentle breezes from S.S.W., light airs from S.W. & S. Calms. Hawse clear.

B.F. Waring
Lieut U.S.N.

From 4 to 8 A.M.
Clear hazy & pleasant. Calm & light airs from N.N.W. The English steamer "Albany" came into the harbor. Recd on board in Pay Department, bread 87 lbs, fresh beef 108¾ lbs. Vegetables 108¾ lbs. Clear hawse.

C.A. Craig
Naval Cadet U.S.N.

From 8 A.M. to Meridian
Clear, warm & pleasant. Light airs from N.N.W. N.E by N & S.E. last half. Engaged in painting white stripes outside. At 9:30 mustered & inspected crew at quarters. Exercised 1st & 3d Divs. single sticks, 2nd Nav. & Powder Divs. at rifles

F.J. Boerum
Ensign U.S.N.

From Meridian to 4 P.M.
Clear, warm weather. Light airs from S.E by S. Cleared hawse.

B.F. Waring
Lieut. U.S.N.

From 4 to 8 P.M.
Clear, warm & pleasant. Light breze decreasing to light airs from S.W. Recd U.S. Mail. Clear hawse.

F.J. Boerum
Ensign U.S.N.

From 8 P.M. to Midnight.
Clear, warm weather. Light airs from North. Cross in hawse, starboard chain on top

B.F. Waring
Lieut. U.S.N.

Examined and found to be correct.

E.D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. E.	Calm	0			30.10	83	81	78		b. c.	cir cum.	9	S.
2				"	N. W.	1			30.10	83	80	78		"	"	9	"
3				E. N. E.	"	1			30.09	81	80	77		"	"	9	"
4				N. E. by E.	"	1			30.09	80	79	77		b. c. f.	"	5	"
5				E. N. E.	"	1			30.09	80	78	76		"	"	6	"
6				N. E. by N	"	1			30.09	80	78	76		"	"	6	"
7				N. W.	"	1			30.09	81	78	76		"	"	6	"
8				"	"	1			30.09	82	80	78		b. c. z.	"	8	"
9				N. N. W.	E. S. E.	1			30.09	82	80	78		"	"	8	"
10				W. S. W.	S. S. E.	2			30.08	82	81	78		"	"	8	"
11				S. E.	S. E.	2			30.08	83	82	79		"	"	8	"
Noon.				"	"	2			30.07	84	83	79		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1250 "

Coal consumed during the preceding 24 hours, tons 760 lbs.

Coal remaining on hand at Noon, 40 " 2024 "

P. M.																	
1				S. E.	S. E.				30.09	86	84	80		b. c.	Cir cum.	7	S.
2				"	"				30.09	87	85	81		"	"	7	"
3				S. S. E.	"				30.06	87	86	81		"	"	8	"
4				South	S. by W.				30.08	82	86	80		"	"	8	"
5				"	South				30.05	87	85	80		"	"	8	"
6				"	S. by W.				30.04	81	83	79		"	"	8	"
7				"	South				30.03	81	83	79		"	"	8	"
8				S. W. by W.	"				30.02	84	82	78		"	"	8	"
9				S. W.	"				30.02	84	81	78		"	"	8	"
10				West	"				30.02	83	81	78		"	"	9	"
11				"	S. S. W.				30.02	82	81	78		"	"	9	"
Mid.				S. S. W.	"				30.02	81	80	77		"	"	9	"

under the command of Commander T. F. Jewell, , U. S. Navy,
Friday August 10th , 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Clear & warm. Calm first hour, then light airs from N.W. Cross in hawse, port chain on top.

As J. Dennison
Lieut U.S.N.

From 4 to 8 A.M.
Clear, warm & pleasant. Light fog around horizon & overland. Light airs from N.W. Recd. in Pay Dept. for issue to crew 106¼ lbs. each, fresh beef & vegetables & 85 lbs. bread Cleaned bilges. Clear hawse.

F. J. Francis
Ensign U.S.N.

From 8 A.M to Meridian.
Clear warm weather. Light breezes from S. & & S. by W. At 9:25 sounded fire alarm. All ready in 55 seconds. Secured in 1 min. 30 sec. Mustered & inspected at quarters, exercised 1st & 2nd Divs. at marching & facings 3d & Powder Divisions at pistols. Absent without leave, C. J. Anderson (Barber) John B. Dougherty (O. sea) Nicholas Lear (B.M) E. R. Miller (O. sea) M. C. Reilly (N.S.) F. Smith Ldsm. Stationed Torpedo Div. Cross in hawse, port chain on top.

B. F. Wakeman
Lieut U.S.N.

From Meridian to 4 P.M.
Clear & warm. Light breeze from S.E. & S. by W. Clear hawse. Recd from Monocacy: 10 Butler Shell, filled, 21-9" Shell, filled, 16 empty 60 Pdr. percussion shell, 10 empty 3" Shell, 60 empty 9" Shell, 60 Sabots, 60 Straps, 15000 Cartridges Cal. 45 Hotchkiss Rifle, 1600 Cartridges Cal. 45 Machine Gun, 1500 Cartridges Cal. 38, Colts Revolvers.

As. J. Dennison
Lieut. U.S.N.

From 4 to 8 P.M.
Clear warm weather. Light breezes from South & S. by W. Scraped spars. Recd on board from U.S.S. Monocacy, the following Ordnance stores: 32 - 34 lbs. charges sphero-hexag powder, 130 - 10 lb charges Cannon powder, 39 - 6 lb. charges Rifle powder, 23 - 10 oz charges cannon powder, 374 lbs. 9" shell powder, 14 lbs. 3" shell powder, 16 percussion fuses (Schenkl) 16 bursting bags, 32 - 35 lb cartridge bags, 169 - 10 lbs cartridge bags, 39 - 6 lb cartridge bags, 23 - 10 oz cartridge bags, & 15 - 13 lb. cartridge bags. Clear hawse. M. Lear (B.M.) J. B. Dougherty (O. sea) & M. C. Reilly (N.S.) were brought on board by U.S. Marshal; rewards of 10 yen each were paid for Lear & Dougherty & Consular Court fees amounting to 14 yen & 14 sen in the case of M. C. Reilly

B. F. Wakeman
Lieut. U.S.N.

From 8 P.M to Midnight
Clear & pleasant. Light airs to light breeze from South & S.S.W. Clear hawse.

As. J. Dennison
Lieut U.S.N.

Examined and found to be correct.

A. S. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d. Rate,

Moored in the harbor of Yokohama, Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S. S. W.	S. S. W.	1			30.02	81	80	77		b. c.	cir cum.	8	S.
2				S. W. by S.	"	1			30.02	80	79	77		"	"	8	"
3				"	"	1			30.02	80	79	76		"	"	7	"
4				"	"	1			30.00	78	78	75		"	"	8	"
5				West	Calm.	0			30.01	79	77	75		b. cz.	"	8	"
6				"	"	0			30.03	78	77	75		"	"	8	"
7				"	"	0			30.01	79	78	76		"	"	8	"
8				N. by W.	"	0			30.02	81	78	77		"	"	8	"
9				"	N. E.	1			30.04	83	81	79		"	"	8	"
10				N. by E.	"	1			30.04	83	82	79		b. c.	"	8	"
11				S. E.	E. S. E.	2			30.03	84	83	80		"	"	8	"
Noon.				"	E. S. E.	2			30.02	86	84	80		"	"	9	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 900 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 40 " 1624 "

P. M.																	
1			S. E.	South	2	30.00	87	85	81		b. c.	cum strat.	8	S.
2			"	"	2	29.99	87	86	81		"	"	8	"
3			S. by E.	"	2	29.98	88	86	81		"	"	9	"
4			S. S. E.	"	2	29.97	87	86	81		"	"	9	"
5			"	"	2	30.00	88	86	81		"	"	8	"
6			S. by W.	"	2	30.00	88	86	81		"	"	9	"
7			"	"	2	30.00	86	84	80		"	"	9	"
8			South	"	2	30.00	85	84	80		"	"	9	"
9			"	"	1	30.00	84	82	79		"	"	9	"
10			N. N. W.	S. W.	1	29.99	84	82	79		"	"	8	"
11			West	"	1	29.99	84	82	79		"	"	8	"
Mid.			W. S. W.	"	1	29.99	84	82	79		"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday August 11th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Clear and pleasant. Light airs from S.S.W.
Clear hawse.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.
Hazy, pleasant weather. Calm. Recd on board and issued to crew, 106¼ lbs each of fresh beef and vegetables and 85 lbs. fresh bread. Clear hawse.

B.F. Waring
Lieut. U.S.N.

From 8 A.M to Meridian.
Clear and warm. Light airs from N.E. to S.E. Placed A. Campbell (C. Top) under sentry's charge he being under the influence of liquor and unfit for duty. Fred Smith (Lds.) was brought on board by the shores police. Paid ten (10) cts reward for him and placed him under sentry's charge, he being under the influence of liquor and unfit for duty. Elbow in hawse.

A.F. Seamon
Lieut. U.S.N.

From Meridian to 4 P.M.
Clear and pleasant. Light breezes from South
By order of Comdg Officer, Released A Campbell (B.M.) and Fredk. Smith (Lds) from sentry's charge, they being sober. Cleared hawse.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.
Clear and warm. Light breezes from South
James Horan (W.T.) and E. J. Anderson (Barber) were brought aboard by the American Consulas police - Clear hawse.

A.F. Seamon
Lieut. U.S.N.

From 8 P.M to Midnight.
Clear and pleasant. Light airs from South and S.W. Chas. T. Baumgartner Private U.S.M.C. and W Ramge (O.sea) returned from liberty drunk and were placed under sentry's charge to sober. by order of the Comdg Officer. Clear hawse.

W.B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

E.D. Galloway
Lieut. and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d. Rate,

Moored in the harbor of Yokohama Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. by E.	S. W.	1			29.88	82	81	78		b.c.	cum strat.	8	S
2				S. W. by S.	"	1			29.97	82	81	78		"	"	8	"
3				"	"	1			29.96	81	80	78		"	"	8	"
4				West	"	1			29.96	81	80	78		"	"	8	"
5				N. E by N.	West	1			29.98	80	79	77		"	"	6	"
6				N. E	North	1			30.00	80	79	77		b.c.f.	"	6	"
7				North	"	1			30.01	80	77	75		"	"	4	"
8				"	"	1			30.01	79	77	75		"	"	4	"
9				"	"	2			30.01	80	78	76		"	"	4	"
10				N. W. by W.	"	1			30.01	81	80	78		b.c.	cir cum.	8	"
11				West	N. W. by W.	1			30.00	82	80	78		"	"	8	"
Noon.				S. W.	West	1			30.00	80	81	77		"	"	8	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 550 "

Coal consumed during the preceding 24 hours, tons 940 lbs.

Coal remaining on hand at Noon, 40 " 684 "

P. M.																	
1				South	East.	1			29.99	84	82	79		b.c.	cir cum.	9	S.
2				S. E by E.	"	2			29.99	84	83	80		"	"	9	"
3				"	E S. E.	2			29.98	86	84	81		"	"	9	"
4				S. S. E.	South	2			29.98	87	85	82		"	"	9	"
5				South	S. W.	2			29.97	86	85	81		"	"	9	"
6				S. S. W.	"	2			29.96	86	84	81		"	cum strat	9	"
7				S. W.	S. S. W.	2			29.95	84	83	80		"	"	8	"
8				W by N.	"	2			29.95	83	82	79		"	"	8	"
9				W. N. W.	W by N.	2			30.01	83	82	80		"	"	8	"
10				W by S.	N. W.	2			29.97	83	83	80		"	"	8	"
11				West.	South	2			29.96	83	83	79		"	"	8	"
Mid.				"	"	2			29.97	84	82	79		"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday August 12th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
clear and pleasant. Light airs from
S. W. and West. clear hawse.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 A.M.
First hours fair and pleasant. Last three hours
foggy. Light airs from North. Placed H. Lyndon (seaman) under sentrys
charge he having returned from liberty under the influence of
liquor and unfit for duty. Released W. Ranger (ordinary seaman) and Chas C.
Baumgardner P.M. they being sober. Recd and issued to crew 10 6/16 lbs.
fresh beef, 10 6/16 lbs fresh vegetables, and 85 lbs. bread, clear hawse.

A. F. Legeyt
Lieut. U.S.N.

From 8 A.M. to Meridian:
clear and warm. Light airs and breezes from
North to West. At 9:30 the Comdg Officer inspected ship with crew
at quarters. Private G. F. Bonery U.S.M.C. and E. R. Miller (ordinary seaman) were
absent without leave. Private Bonery was brought off by the
police at 10 a.m. By order of the Comdg Officer, released H. Lyndon (seaman)
from sentrys charge he being sober. Held Divine service. clear hawse.
Started fires in boilers 1 and 3 for distilling

W. W. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.
clear, warm and pleasant. Light breezes
from East, S.S.E. and South. At 7:30 started water from distiller over
into the tanks. clear hawse

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 P.M.
clear, warm and pleasant. Light breezes
from S. W. and S.S.W. clear hawse.

W. W. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight
clear, warm and pleasant. Light breezes
from W by N, W.N.W. and South. clear hawse.

C. S. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

L. S. Galloway
Lieut. U.S.N. Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,
Moored in the harbor of Yokohama Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															Cir		
1				N. N. W.	Calm	0			29.97	85	87	79		b. c.	Cum.	8	S.
2				N. by E.	"	0			29.97	84	81	79		"	"	8	"
3				"	N. E. N.	1			29.97	83	81	79		"	"	9	"
4				N. N. W.	"	1			29.97	83	81	79		"	"	9	"
5				North	N. N. W.	2			29.97	81	80	78		"	Cum Strat.	8	"
6				"	N. W.	2			29.99	81	80	78		"	"	8	"
7				N. by W.	"	2			30.00	82	80	78		"	"	8	"
8				"	"	2			30.01	82	81	78		"	"	8	"
9				"	North	1			30.04	85	83	80		"	"	9	"
10				N. by E	"	1			30.04	85	83	81		"	"	9	"
11				North	"	1			30.04	85	84	81		"	"	8	"
Noon.				S. E by S.	S. S. E.	1			30.04	86	85	81		"	"	8	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1100 "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, 1 tons 1580 lbs.

Coal remaining on hand at Noon, 38 " 1344 "

P. M.																	
1				S. E.	South	1			30.03	87	86	81		b. c.	cir cum	9	S.
2				South	"	1			30.02	87	86	81		"	"	9	"
3				W by S.	"	1			30.00	87	86	81		"	"	9	"
4				S. W.	"	1			30.00	88	86	81		"	"	9	"
5				South	"	1			30.01	89	86	81		"	"	9	"
6				S. W. by W.	"	1			30.01	88	85	81		"	"	8	"
7				S. S. W.	S. S. W.	1			30.01	86	84	80		"	"	8	"
8				W. S. W.	"	2			30.01	85	83	80		"	"	8	"
9				W. S. W.	"	1			30.01	85	83	80		"	"	8	"
10				West	"	1			30.01	85	83	80		"	"	8	"
11				"	West	1			30.01	85	83	80		"	"	8	"
Mid.				"	"	1			30.01	80	81	79		"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday August 13th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Clear & pleasant. Calm first half, light airs from W.S.W last half. Clear hawse. Distilling.

F. J. Foomis
Ensign U.S.N.

From 4 to 8 A. M.
Clear, warm & pleasant. Light breeze from W.N.W & N.W. Made preparations for coaling ship. Recd for issue in Pay Sept. 106¼ lbs each of fresh beef & vegetables & 85 lbs. fresh bread. Clear hawse. Distilling.

W. B. Boggatt
Ensign U.S.N.

From 8 A M to Meridian.
Clear warm & pleasant. Light airs from North & S.S.E. At 9:00 Board of Inspection inspected coal, & commenced coaling ship. Recd on board 37 tons coal. At 9:30 made sick report num. 2. At work repairing forsail & maintopsail. Cross in hawse, starboard chain on top. Distilling.

C. L. Craig
Naval Cadet U.S.N.

From Meridian to 4 P. M.
Clear warm & pleasant. Light airs from South. Cleared hawse. Coaling ship. Recd at end of watch 78 tons. Distilling. Recd in Pay Sept. 1 bale cloth trousers, 1 bale duck trousers, 8 bales flannel, 2 boxes calf shoes, 2 bales socks, & 2 bales working suits. Clear hawse.

F. J. Foomis
Ensign U.S.N.

From 4 to 8 P. M.
Clear warm & pleasant. Light airs to light breezes from South & S.S.W. At 5 00 finished coaling ship having received on board 85 tons Takasima coal. The English steamer Dorset & a new Japanese steamer came into the harbor. Clear hawse. Distilling

C. L. Craig
Naval Cadet U.S.N.

From 8 P. M to Midnight
Clear & pleasant. Light airs from S.S.W. first half, & West last half. Clear hawse. Distilling. Moon set at 10 o'clock

F. J. Foomis
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S. W.	S. W.	1			30.02	83	81	79		b. c.	cir cum.	8	S.
2				"	"	1			30.02	83	81	79		"	"	8	"
3				W. S. W.	"	1			30.02	83	81	78		"	"	8	"
4				N. N. W.	"	1			30.03	82	80	77		"	"	8	"
5				North	"	1			30.03	81	79	77		b. c. z.	"	7	"
6				N. N. W.	"	1			30.04	81	79	78		"	"	2	"
7				N. by W.	"	1			30.05	81	78	76		"	"	5	"
8				"	"	1			30.06	82	79	77		"	"	7	"
9				N. N. W.	S. S. W.	2			30.06	82	81	79		"	"	5	"
10				S. W. by S.	"	2			30.05	84	82	80		"	"	6	"
11				S. W.	"	2			30.05	86	84	80		"	"	6	"
Noon.				"	"	2			30.05	86	85	80		"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1350 "

Water remaining on hand fit for use at Noon, 2300 "

Coal consumed during the preceding 24 hours, 1 tons 1850 lbs.

Coal remaining on hand at Noon, 121 " 1734 "

P. M.														
1	S. S. W.	S. S. W.	2-3	30.03	87	85	80	b. c.	cir cum.	7	S.
2	S. by W.	"	2-3	30.02	87	86	80	"	"	8	"
3	South	"	2-3	30.01	87	86	81	"	"	8	"
4	"	South	2-3	30.01	88	86	81	"	"	9	"
5	S. by E.	S. by W.	2-3	29.99	88	86	80	"	"	9	"
6	"	"	2-3	29.98	86	85	80	"	"	9	"
7	South	S. S. W.	3	29.97	84	82	76	b. c. g.	"	9	"
8	S. S. W.	"	3	29.97	83	82	76	"	"	9	"
9	"	"	3	29.97	82	81	76	b. g.	"	10	"
10	S. W.	S. W.	3-4	29.97	82	81	76	"	"	10	"
11	S. W. by W.	"	3-4	29.97	81	80	76	"	"	10	"
Mid.	"	"	3-4	29.96	81	80	75	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday August 14th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Clear, pleasant weather. Light airs from S.W. Clear hawse.
B. F. Walling
Lieut U.S.N.

From 4 to 8 A.M. Lieut U.S.N.
Cloudy & hazy first part clear latter part. Light airs from N.W. Recd on board 85 lbs fresh bread. The German steamer "General Worder" came into the harbor. Clear hawse.
C. A. Craig
Naval Cadet U.S.N.

From 8 A.M. to Meridian
Clear, warm & pleasant. Hazy over land. Light breeze from S.S.W. At 9:30 mustered & inspected at quarters; found E. R. Miller (O.S.) absent without leave. Drilled infantry company. Clear hawse. Distilling. Sent a boarding officer to the P.M.S.S. Rio de Janiero. Recd in Engineer Dept. 450 gals. tea oil, 100 lbs cotton-waste, 20 gals. asphaltum 12 bath bricks, 6 lbs lamp-wick, 1 lb sewing twine, 6 sq. ft. sheet lead, & 1 qt. black ink. Recd the following stores in Equipt. Dept. 1/2 bbl. tar, 20 gals coal tar, 20 gals. tar oil 20 lbs flax twine, 12 hickory brooms, 63/4 lbs 12 Th Manilla, 61 lbs 18 Th Manilla. Recd in Construction Dept. 25 lbs shellac, 20 gals linseed oil, 50 ft. pine boards 1×12, 100 ft. ash boards, 2×12, 3 gals. dryer, 25 lbs red lead. Recd in Navigation Dept. 2 lbs spun wick & 156 gals. lamp oil.
F. J. Jewell
Ensign U.S.N.

From Meridian to 4 P.M.
Clear, warm weather. Light to gentle breezes from S.S.W. Made quarterly inspection of mk gun-cotton & found it in good condition. Clear hawse.
B. F. Walling
Lieut U.S.N.

From 4 to 8 P.M.
Clear, warm & pleasant. Light to gentle breezes from S. by W. & S.S.W. Squally. Distilling. Clear hawse. Recd in Medical Dept Quinine Sulph 20 oz., Potass Iodid 4 lbs., Flannel 11 yds, Muslin 164 yds, Lint 3 lbs., & Medical journal, one. By order of Comdg Officer placed F. Johansen (Sea) under sentry's charge to await further action for attempting to leave boat without permission & being under the influence of liquor.
F. J. Jewell
Ensign U.S.N.

From 8 P.M. to Midnight.
Clear & pleasant weather. Gentle breezes from S.S.W., gentle to moderate breezes from S.W. Clear hawse.
B. F. Walling
Lieut U.S.N.

Examined and found to be correct.

L. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama, Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				W.S.W.	S.W.	3-4			29.95	82	80	76		b.c.	Cir cum.		
2				"	"	3-4			29.95	82	80	76		"	"		
3				"	"	3-4			29.95	82	80	76		"	"		
4				"	"	4			29.93	82	80	76		"	"		
5				S.W.	"	3			29.95	80	79	75		"	"		
6				"	"	3			29.94	80	79	75		"	"		
7				S.W by S.	"	3			29.93	81	79	75		"	"		
8				S.W.	"	3			29.94	81	80	76		"	"		
9				"	"	3			29.95	83	82	77		"	"		
10				"	"	3			29.95	85	83	78		"	"		
11				W by S.	"	3			29.96	85	84	78		"	"		
Noon.				West	"	3			29.96	85	84	78		"	"		

Course and distance made good since preceding noon by observations, . . knots . tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1050 "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, tons 1210 lbs.

Coal remaining on hand at Noon, 121 " 524 "

P. M.												
1		N.N.W.	S.E.	2	29.93	85	84	79	d.c.	Cumulus	0	S.
2		N.S.W	S.S.E.	2	29.90	84	83	80	"	"	0	"
3		N.N.W.	"	1	29.88	84	83	80	"	"	0	"
4		"	N.W.	1	29.88	84	83	79	"	"	0	"
5		S.S.W.	S.S.W.	1	29.87	83	82	78	o.c.n.	"	0	"
6		S.S.E.	Calm	0	29.87	83	82	78	b.c.	"	2	"
7		East	"	0	29.86	83	82	79	"	"	3	"
8		"	East	1	29.85	84	82	79	"	"	2	"
9		North	"	1	29.86	81	80	77	"	"	2	"
10		"	N.N.W.	1	29.85	80	79	75	"	"	2	"
11		N.E by N.	"	1	29.85	79	77	72	"	"	4	"
Mid.		E.N.E.	"	1	29.84	79	77	72	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday August 15th, 1888.

List of Medical Stores

400 gm. Acacia Powd., 200 gm. Acid Carbol. Crys., 2000 gm. acid carbol, Imb, 100 gm. acid Carbol. Tannic, 50 gm Aconite Rad. Ext., 1200 gm. Aetheris Spts nit. 4000 c.c. Alcohol, 200 gm Alum Po, 1600 gm Ammonia Aqua, 200 gm. Ammonia Spir. Aros, 200 gm. Ammonia Chloride, 25 gm. Argenti Nit, 50 gm. Argenti Nit. Fused, 25 gm Belladonna ext. alc. 100 gm Bismuth Sub Nit, 400 gm Buchu F. Ext, 400 gm Camphor, 50 gm Cantharides Tinct., 200 gm Capsici Ex. Fluid, 100 gm Chloral Hydras, 1600 gm Chloroform Imp, 600 gm Chloroform Pure, 400 gm. Cinchonea Fluid ext, 25 gm. Cinnamon Oleo, 3000 gm. Copaiba, 2500 Cosmoline 100 gm. Cubebs Oleo Resin, 1200 gm. Ferri Chloridi Tinct, 400 gm. Gentian Ext Fluid, 800 gm. Glycerine, 1600 gm. Glycyrrhiza 100 gm. Hydrarg. Chlo. Mit, 400 Hydrarg Unguent, 50 gm Iodin, 150 gm Iodoform, 50 gm. Ipecac, Fluid Ext, 100 gm. Ipecac Puli Comp. 200 gm Jaborandi Fluid Ext, 20 kg Lini Farina, 2 kg Linum, 8 kg Magnesia Sulph, 50 gm. Menth. Pip. Oleo, 10 gm. Morphiae Sulph., 4 Lt. Olive Oleo, 2000 gm Opii Tinct, 2000 gm Opii Tinct Camp, 25 gm. Pepsin, 400 ea Pil. Aloin Comp., 100 ea Pil. Cath Comp., 400 ea. Plumbi Acetas, 200 ea Potass Acetas, 400 ea Potass Bromide, 200 ea. Potass Chlorat, 2000 ea. Potass et Sod. Tart, 100 gm Rhei Fluid Ext., 6 Lt. Ricini Oleo, 100 ea. Santonine Pils 0.03, 2000 gm. Sapo, 3000 gm. Sapo Liniment, 3000 gms. Scillae Syr., 200 gms. Senegal Ext. Fluid, 200 gm Sennae Ext. Fluid, 4 ea. Sinapis Etap.,

Examined and found to be correct.

T. D. Galloway
Lieut U.S.N. Navigator.

under the , U. S. Navy,

18 88.

Continued

1000 gm. Soda Bi Carb., 800 gm. Soda Borax, 500 gm. Sulphur, 75 gm. Zinc Oxide, 150 Zinc Acetate, 800 gm. Zingibis, Fluid Ext., 500 gm. Acid Boracic, 3 gm. Cocoaine Mur., 37 gms. Antipyrine, 4 lt. Brandy, 2000 gm. Extract Beef, 3000 gm. Milk, 8 lt. Alcohol, 9 lt. Whiskey, 4 lt. Wine Sherry, 2 ea. Syringes, 6 ea. Bandages Suspend, 6 ea Pencils Camels Hair, 175 gms. Pins, 5 m Plaster, Adhesive, 3 m. Plaster Isinglass, 75 ea Pill Boxes, paper, 15 ea Pill Boxes wood, 60 ea Vials 1, 2, 3 & 4 z, 2 ea Tumblers, 2 ea Wine Glasses, 6 ea Towels, 5 ea Lead Pencils, 50 tubes Vaccine Calf Lymph.

Examined and found to be correct.

D. D. Galloway
Lieut U.S.N. Navigator.

under the [redacted], U.S. Navy,

[redacted] 1867.

Commences & until 4 A.M.

Clear & pleasant. Breezes in squalls from N.W. gentle to moderate. Clear hawse.

From 4 to 8 A.M.

Clear, cool & pleasant. Gentle breeze from N.W. Rec'd in Pay Dept for issue to crew, 107 lbs. each fresh beef & vegetables & 86 lbs. bread. At 1730 Monocacy made Seq. 887. Answered. Clear hawse.

From 8 A.M to Meridian:

Rec'd in Construction Dept. 10 gals Alcohol in Navigation Dept. 435 lbs lead-line & in Ord. Dept. Pro. & Ch. the following: 400 lbs flour, 1600 lbs pork, 80 gal beans, 600 lbs salt beef, 75 lbs dried fruit, 240 lbs tomatoes 775 lbs canned meats, 530 lbs bacon, 570 lbs salmon, 1050 lbs sugar, 436 lbs pickles, 1447 lbs canned vegetables, 400 lbs candles & 50 lbs soap. At sea without incident, Assistant Surgeon (A.S.) E.R. Miller (A.S.) & Paymaster James H. Illey (P.M.) Clear hawse.

From Meridian to 4 P.M.

Warm, Overcast & cloudy. Light airs to light breezes from S.E. & S. Rec'd in Medical Dept. the articles in appended list. Clear hawse. Rec'd on board from Naval Hospital William Beavers Landsman & Ernest Smith (O.S.)

From 4 to 8 P.M.

Cloudy weather, light rains first hours. Rec'd in Dept Pro. & Clo. 240 lbs. butter & 516 lbs. coffee. Moored in hawse, port chain on top.

From 8 P.M to Midnight:

Cloudy. Pleasant. Light airs from East first hours, then from S.S.W. Moored in hawse, port chain on top.

Examined and found to be correct.

Lieut & Navigator

LOG of the UNITED STATES Steamer Essex, 3d Rate,
Moored in the harbor of Yokohama Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N.E. by E.	N.W.	1			29.84	78	76	75		b.c.	cir cum.	5	S.
2				N.E.	"	1			29.83	77	76	74		"	"	5	"
3				N by W.	"	1			29.82	77	76	74		"	"	5	"
4				"	N.N.W.	2			29.82	76	75	72		"	"	6	"
5				N.N.W.	North	2			29.83	77	75	72		"	Cum.	3	"
6				N by E.	"	2			29.85	77	75	73		"	"	2	"
7				N.N.E.	"	2			29.87	77	75	73		O.C.	cum nimb.	0	"
8				N.E.	N.E.	2-3			29.89	75	74	72		"	"	0	"
9				"	"	2-3			29.90	75	74	72		"	"	0	"
10				"	"	3-4			29.91	75	74	71		"	"	0	"
11				"	"	3-4			29.90	76	74	71		"	"	0	"
Noon.				"	"	3-4			29.90	75	74	71		"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 121 " 124 "

P. M.																	
1			N.E. by E.	N.E.	3			29.89	76	75	71		o.c.g.	cir cum.	0	S.
2			"	"	3			29.90	76	75	71		"	"	0	"
3			"	"	3			29.91	76	75	71		"	"	0	"
4			N.N.E.	N.E. by N.	3			29.92	77	75	71		"	"	0	"
5			N.E.	"	3			29.92	76	75	70		"	cum nim.	0	"
6			"	N.E.	3			29.94	76	75	70		"	"	0	"
7			"	"	3			29.97	75	74	70		"	"	0	"
8			N.E. by E.	"	3			29.99	74	74	70		"	"	0	"
9			N by E.	N by E.	3			30.04	73	74	70	80	"	"	0	"
10			North	"	3			30.00	73	73	70		"	"	2	"
11			"	North	3			29.99	73	72	69		b.c.	cir cum.	7	"
Mid.			"	"	3			29.98	73	71	68		"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday August 16th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Generally clear & pleasant. Light airs and breezes from N.W. & N.N.W. Cross in hawse, port chain on top.

W. B. Stoggatt
Ensign U. S. N.

From 4 to 8 A.M.
Recd in Pay. Dept. & issued to crew, 86 lbs. fresh bread. Light breezes from N.N.W. & North. Cross in hawse, port chain on top.

B. L. Wareing
Lieut U. S. N.

From 8 A.M to Meridian
Overcast & cloudy. Moderate breezes from N.E. At 9:30 exercised at gneral quarters. Private James Hilley was brought on board by the U.S. Marshall. Paid a reward of 10 ycts for him. Cross in hawse, port chain on top.

A. F. Fechteler
Lieut. U. S. N.

From Meridian to 4 P.M.
Overcast & pleasant. Gentle breeze from N.E. & N.E. by N. Recd 17 Pks of clothing for U.S.S. Juniata. Cross in hawse, port chain on top. Fitted new fore sheaves for wheel ropes & examined steering gear.

W. B. Stoggatt
Ensign U. S. N.

From 4 to 8 P.M.
Overcast & cloudy. Gentle breeze from N.E. Cross in hawse, port chain on top.

A. F. Fechteler
Lieut U. S. N.

From 8 P.M to Midnight:
Cloudy, clearing weather. Gentle breeze from North & N. by E. Elbow in hawse, port chain on top.

W. B. Stoggatt
Ensign U. S. N.

Examined and found to be correct.

R. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Yokohama to Kobe Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N by E.	North	3			29.99	73	72	68		O.C.	Cum.	0	S.
2				N. by W.	"	3			29.99	73	71	68		"	"	0	"
3				"	"	2			29.99	72	71	68		"	"	0	"
4				North	"	2			29.99	71	71	68		b. c.	"	1	"
5				"	"	2			30.00	71	70	67		"	"	1	"
6				"	"	2			30.02	71	69	67		"	Cir Cum.	2	"
7				"	"	2			30.04	72	70	67		"	"	4	"
8				N.N.E.	N.N.E.	2			30.04	72	71	67		"	"	4	"
9				N.E. by N.	N.E.	2			30.06	73	72	68		"	Cum.	2	"
10				N.E.	"	2			30.08	74	72	69		"	"	2	"
11				"	"	2			30.08	74	73	69		"	"	3	"
Noon.				"	"	2			30.05	75	74	69		"	"	3	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by Bearings 35 ° 13 ' "
- Longitude by Bearings 139 ° 47 ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2300 "

Coal consumed during the preceding 24 hours, tons 2020 lbs.

Coal remaining on hand at Noon, 120 " 3444 "

P. M.																	
1				N.E. by E.	E.N.E.	2	30.03	76	75	69		b. c.	Cir Cum.	8	S.
2				E. by N.	East	2	30.04	77	76	69		"	"	8	"
3				East	"	2	30.03	77	76	70		"	"	8	"
4				"	"	2	30.02	77	76	70		"	"	8	"
5				Standing out of harbor	"	2	30.01	77	76	69		"	"	8	"
6				"	"	2	30.01	77	75	68		"	"	4	"
7	6	5	6.5	N ½ E.	S.E.	3	30.01	75	74	67		"	"	4	"
8	7	9	14.4	S. ½ E.	"	3	30.01	74	72	67	78	"	"	4	"
9	5½	8	22.6	S.S.W. ½ W.	"	3	30.01	74	72	68	77	"	"	5	"
10	4	5	31.5	S.W. by W ½ W.	"	3	30.01	74	72	68	79	"	"	6	"
11	9	1	40.6	"	"	2-3	30.01	74	72	68	78	"	"	6	"
Mid.	3	2	50.0	S.W. ½ W.	"	2-3	30.02	74	72	68	78	"	"	4	"

under the command of Commander J. F. Jewell, U. S. Navy,
Friday August 17th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Overcast & cloudy. Gentle to light breezes from North. Elbow in hawse, port chain on top.

C. A. Craig
Naval Cadet U. S. N.

From 4 to 8 A. M.
Cloudy. Pleasant. Light breeze from North At 7:00 started fires in boilers 2, 4, 5, 6, 7 & 8. Clear hawse.

S. F. Comptn
Lieut U. S. N.

From 8 A M to Meridian:
Partly clear & pleasant. Light breeze from N.E. At 9:05 made signal Int. 2255. Answered from Monocacy with Cornet. At 9:15 called all hands & bent sail & at 10:20 piped down. Transferred C. E. Hipes P.M. to the Monocacy, & Private John Flynn U.S.M.C. was transferred to this vessel from the Monocacy. Made preparations for sea. Cross in hawse, port chain on top.

W. W. Woggatt
Ensign U. S. N.

From Meridian to 4 P. M.
Clear & pleasant. Light breezes from E.N.E. Dipped starboard chain under port one, hove up starboard anchor & secured it for letting go. Hove in to 20 fms. on port chain, Making preparations for sea. Recd American mail. Fires banked in boilers nos. 2, 4, 5, 6, 7, & 8.

C. A. Craig.
Naval Cadet U. S. N.

From 4 to 6 P. M.
Clear & pleasant. Light breeze from East. At 4:15 mustered crew at quarters & secured battery for sea. At 4:45 called all hands up anchor, made signal Int. 4890 to Monocacy. Answered with Cornet. At 4.53 got under way & at 5.15 stopped engines to wait for straggler. Made universal signal B. R. S. to Monocacy. While engines stopped, Monocacy made Int signal 3668 Answered in the negative. Draft of ship, fwd. 14' aft 16'. Steaming with six boilers & working engines to bell at end of watch.

W. W. Woggatt
Ensign U. S. N.

From 6 to 8 P. M.
Clear, cool & pleasant, bright moonlight. Gentle breeze from S. E. Steaming down Yeddo Bay with fore & aft sail set. Stat. at the conn. at 6:11 put over pat. log, reading 0. at 8:00 Tsurugi Lt. bore S. W. by W. & Kuwan Lt. N.N.W. 3/8 W. P.L. 14.4

F. J. Boorman
Ensign U. S. N.

From 8 P. M. to Midnight:
Fair, pleasant weather - light to gentle breeze from S.E. At 8:15 set forsail. At 8:39 Tsurugi Lt. Ho. bearing N.W. dist. 1.2 miles. Changed course to S. W. by W. & set topsails & topgallants sails. At 9:25 changed course to S. W. by W. & at 11:28 to S. W. by W. At 9:00 sighted Vries Island, which bore at 12. S. E. by S. High land in sight along starbd beam. Passed a steamer & two schooners standing to N. & E. P. L. 40.

Examined and found to be correct.

B. F. Dawing
Lieut U. S. N.

E. K. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Yokohama to Kobe Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	8	2	58.2	S. W½ W.	E. S. E.	2			30.03	74	74	70	77	b. c	cir cum	4	S.
2	8	3	66.5	"	S. W.	1			30.01	75	75	70	77	"	"	4	"
3	8	4	74.9	S. W.	South	1-2			29.98	75	75	70	77	"	"	4	"
4	7	2	82.1	S. W½ S.	"	1-2			29.99	75	76	71	79	"	"	4	"
	1	2	83.3	W½ S.													
5	8	3	91.6	"	S. W.	1-2			29.99	75	76	71	79	"	"	2	"
6	8	2	99.8	"	"	2			30.00	76	74	71	79	"	"	0	"
7	8	5	8.3	"	West	1			30.01	76	74	71	78	c. c.	"	0	"
8	8	2	16.5	"	"	1			30.01	76	75	71	78	b. c.	"	3	"
9	8	1	24.6	W. ¾ S.	W. by S.	1			30.01	76	76	72	78	"	"	7	S. W.
10	8	2	32.8	"	"	1			30.02	78	77	72	78	"	"	7	"
11	8	1	40.9	"	"	2			30.02	79	79	73	78	"	"	4	"
Noon.	7	9	48.8	"	W. S. W.	2			30.01	81	80	74	78	"	"	4	"

Course and distance made good since preceding noon by observations, various (coasting) 148 knots. 8 tenths.

Position at Noon:
- Latitude by D. R. — N. 34 ° 24' "
- Longitude by D. R. — E. 137 ° 44' "
- Latitude by observations of ⊙ — ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — ° ' "

Position at 8 a. m.:
- Latitude by D.R. — N. 34 ° 27' "
- Longitude by D.R. — E. 138 ° 22' "

Position at 8 P. M.:
- Latitude by D.R. — N 33 ° 53' "
- Longitude by D.R. — E 136 ° 39' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2950 "

Coal consumed during the preceding 24 hours, 13 tons 170 lbs.

Coal remaining on hand at Noon, 107 " 174 "

P. M.																
1	7	6	56.2	N. ¾ E.	N. E. N.	2	30.00	81	80	74	80	b. c.	cum.	4	S. W.
2	7	5	63.7	"	"	2	30.00	81	80	74	80	"	"	4	"
3	7	4	71.1	S. W. by W.	"	2	29.98	81	80	75	80	"	"	5	"
4	7	1	78.2	"	S. W by W.	2	29.96	83	81	75	80	"	"	5	"
5	6	9	85.1	"	"	2-3	29.95	83	81	76	79	"	"	6	"
6	6	9	92.0	"	"	2-3	29.95	82	80	76	79	"	"	6	"
7	7	0	99.0	"	W S. W.	3	29.97	82	81	77	79	"	"	5	"
8	7	1	106.1	"	"	3	29.96	82	82	78	79	"	"	6	"
9	6	3	12.4	"	S. W. by W.	3	29.96	82	82	78	79	"	"	7	S.
10	7	6	19.0	"	"	2	29.96	82	82	78	79	"	"	8	"
11	6	3	25.3	"	"	2	29.96	82	82	78	79	"	"	8	"
Mid.	6	6	31.9	"	N. S. W.	2	29.94	82	82	79	79	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday August 18th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Generally cloudy. Pleasant. First hour light breeze from E.S.E. then light airs to light breeze from N.W. hauling to North by end of watch. At 12:20 took in all sail. At 1:20 sighted Rock Id. Lt. ahead. At 2:00 Changed course to S.W.. Set fore & aft sail. At 3:00 changed course to S.W.½S. P.L. 76.3 At 3:50 Rock Id. Lt. bore N.W.½W. dist. 7 miles. Changed course to W.½S. P.L. 87.1 Took in m. trysail.

A. F. Fechteler
Lieut U. S. N.

From 4 to 8 A.M.
Cloudy & pleasant. Light airs & breeze from N.W. to West. At 5:30 set foresail. Took it in at 6:45. At 7:15 took in fore & aft sail. on course W.½S. during watch. At end of watch Omai Saki Lt. Ho. bore p.o. N.W.¼N. Under steam alone at end of watch. Smooth sea.

W. B. Hoggatt
Ensign U. S. N.

From 8 A.M. to Meridian
Fair warm & pleasant. Light airs to light breeze from W.by S. & W.S.W. Steaming course W.½S. until 8:50, when changed course to W.¾S. At 8:35 Omai Saki Lt. bore abeam, distant 7 miles. At 9:30 inspected bags at quarters. P.L. 48.8

F. J. Loomis
Ensign U. S. N.

From Meridian to 4 P.M.
Fair, pleasant weather. Light breezes from W.S.W. & S.W.by W. Steering a course W.¾S. At 2:00 changed to S.W.by W. Long swell from South. Pat Log 78.2

B. B. Walling
Lieut U. S. N.

From 4 to 6 P.M.
Fair & pleasant. Light to gentle breeze from S.W.by W. Long swell from S.W. Course S.W.by W. Land in sight on starboard beam

A. F. Fechteler
Lieut U. S. N.

From 6 to 8 P.M.
Fair & pleasant. Light to gentle breeze from S.W.by W. On course S.W.by W. Land in sight on starboard beam. By order of the Comdg Officer confined T. Johnson O. S. five days in double irons for being drunk and noisy in boat, and attempting to leave boat.

W. B. Hoggatt
Ensign U. S. N.

From 8 P.M. to Midnight:
Clear & pleasant. Bright moonlight. Gentle to light breeze from S.W.by W & W.S.W. Steaming course S.W.by W P.L. 31.9

F. J. Loomis
Ensign U. S. N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Yokohama to Kobe Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	6	38.3	S. W. by W.	N. by E.	2			29.93	82	81	79	79	b.c.	Cir Cum.	8	S.
2	6	5	44.8	W. S. W.	"	2			29.92	82	81	79	80	"	"	7	"
3	5	3	50.1	"	"	2			29.92	82	81	79	80	"	"	7	"
4	7	5	57.6	"	"	2			29.92	82	81	79	80	"	"	8	"
5	6	2	63.8	W. N. W.	W. N. W.	2			29.92	83	83	80	80	"	"	7	"
6	7	0	70.8	"	"	2-3			29.93	83	83	80	80	"	"	7	"
7	7	3	78.1	"	"	2			29.93	83	83	80	82	"	"	8	"
8	7	0	85.1	"	"	2			29.93	83	83	80	82	"	"	8	"
9	6	4	91.5	"	"	2			29.94	84	84	80	82	"	"	7	"
10	6	8	98.3	W. by N.	"	3			29.94	85	84	80	82	"	Circum & strat.	6	"
11	6	3	5.6	W. by N.	"	4-4			29.93	86	85	81	83	b.c.g.	"	6	"
Noon.	4	1/9	6.7 11.6	N. W. by W. ½ W.	"	4-4			29.93	86	85	81	83	"	"	6	"

Course and distance made good since preceding noon by observations, S. 77° W. 176 knots. tenths.

Position at Noon:
- Latitude by D. R. Bearings — N. 33 ° 25′ "
- Longitude by D. R. " — E. 135 ° 39′ "
- Latitude by observations of ⊙ S.R. — N. 33 ° 30′ "
- Longitude by chronometer from Forenoon Observations of ⊙ — E. 134 ° 57′ "

Position at 8 a. m.
- Latitude by Bearings — N. 33 ° 22′ "
- Longitude by Bearings — E. 135 ° 55′ "

Position at 8 P. M.
- Latitude by D. R. — N. 34 ° 01′ "
- Longitude by D. R. — E. 135 ° 01′ "

Current during the time, 35 knots ~~tenths per hour~~, setting to the E. 82° E

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ "

Variation of the Compass by Azimuth ⊙ observed at " ° ′ "

Variation of the Compass by Azimuth ⊙ observed at " ° ′ "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 12 tons 2230 lbs.

Coal remaining on hand at Noon, 94 " 184 "

P. M.																	
1	5	6	17.2	N. W. by N. ½ W.	N. N. W.	3			29.90	86	85	80	82	b.c.z.	cir cum.	7	S.
2	6	0	23.2	"	"	3			29.88	86	85	80	82	"	"	6	"
3	6	4	29.6	"	"	3			29.87	86	86	80	82	"	"	6	"
4	4 2	0	33.6	N. N. W. ½ W.	"	3			29.87	87	86	80	82	"	"	5	"
5	6	2	35.6 41.8	"	West	3			29.90	88	84	81	82	b.c.	cir Strat	4	"
6	7	5	49.3	"	"	3			29 90	84	83	79	82	"		5	"
7	7 1	0 1	56.3 57.4	N. W. ½ W.	S. W.	2-3			29.88	84	82	79	81	"		4	"
8	8	2	65.6	"	"	2-3			29.89	85	82	79	81	"		4	"
9	7 0	4 7	73.0 73.7	N. ¼ E.	S. S. E.	1			29.89	85	82	79	78	"		8	"
10	7	8	81.5	N. ½ E.	Variable	1			29.89	84	82	79	78	"		8	"
11	7	7	89.2	N. N. E. ½ E.	E. S. E.	2			29.89	83	82	79	78	"		8	"
Mid.	7	7	96.9	"	South	1			29.89	83	82	79	78	"		7	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday August 19th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Clear, pleasant weather. Light breezes from W by S. Steaming a course S.W by W. under steam alone. At 2:00 changed course to W.S.W. At 1:25 made 00 Sima Lt. Ho. bearing W.By N. and at 3:50 Sija Misaki Lt. Ho. bearing N.W by N. Long swell from South. Ship rolling easily Pat log at 4 o 57.6

R.F. Walling
Lieut U.S.N.

From 4 to 8 A.M.
Clear. Warm. Light to gentle breeze from W.N.W. Land in sight on stbd. hand. Course W.N.W. Oo Sima Lt. and Sija Misaki Lt in sight on starboard bow.

S.A. Lechner
Lieut. U.S.N.

From 8 A.M. to Meridian
Clear, warm and pleasant. Light to mod. breeze from W.N.W. at 9:06 changed course to W.by N. At 10:03 to W.½N. and at 11:10 to N.W by W½W. At 9:30 mustered crew at quarters. At end of watch Sino Misaki Lt. Ho. bore p.c. E by N. Land in sight on starboard hand during watch. Smooth sea.

W.S. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.
Clear warm and pleasant. Hazy. Gentle breeze from W.S.W. Steaming course N.W. by W½W. until 3:40 when changed course to N.W½N. Land along starbd hand about two miles distant Pat. Log 35.6

F.J. Boromio
Ensign U.S.N.

From 4 to 6 P.M.
Clear, pleasant weather. Gentle breezes from West. At 4:40 set all fore and aft sail. Steaming on course N.W½N. Light Wly swell. Pat log. 49.3

R.F. Walling
Lieut U.S.N.

From 6 to 8 P.M.
Warm. Generally cloudy. Light to gentle breeze from S.W. At 6:20 set foresail. At 6.50 changed course to N½W. P.L. 56.3 Called all hands and made sail to top gallant sails.

A.F. Lechner
Lieut U.S.N.

From 8 P.M to Midnight:
Partly clear, warm. Light airs (variable) and light airs and breeze from South to E.S.E. At 8:30 took in all sail and at 10:30 fore and aft sail. Changed course as follows: at 9:15 to N¼E. at 10:00 to N½E. at 10:10 to N by E. and at 10:15 to N.N.E½E. At end of watch Lt. Ho. bore p.c. S.S.W¼W.

W.S. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

E.L. Galloway
Lieut and Navigator.

The current noted was found to be 4.3 knots per hour from 8 to 9 a.m. and 4 knots from 9 to 10 a.m. off Oo Sima and Sino Misaki lights. I presume the current affected us chiefly between midnight and 11 a.m. as by P.M. observation 4 o'clock we had no current at that time. Lat N 34°.12' Long E 137°.06'

LOG of the UNITED STATES Steamer Essex 3d , Rate,

At sea on the passage from Yokohama & Moored in the harbor of Kobe.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	8	3.7	N.N.E. ½ E.	S.W.	1			29.88	83	87	80	78	f.c.z	Cir cum.	6	S.
2	6	5	10.2	[illegible]	W.S.W.	1			29.86	83	82	80	78	"	"	6	"
3				"	"	1			29.85	82	82	79		"	"	6	"
4				North	"	1			29.85	81	81	79		"	"	7	"
5				Calm.	Calm.	0			29.87	83	81	79		"	"	6	"
6				N.N.E.	"	0			29.87	83	81	79		"	"	6	"
7				"	"	0			29.89	83	81	79		"	"	6	"
8				N.E. by N.	West	1			29.89	82	81	79		"	"	7	"
9				"	S.W.	2			29.89	83	82	80		f.c.	"	8	"
10				East	South	2			29.89	83	82	80		"	"	8	"
11				S. by E.	"	2			29.88	84	83	80		"	"	8	"
Noon.				"	S.W. by S.	2			29.87	85	84	80		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 200 "

Water remaining on hand fit for use at Noon, 1450 "

Coal consumed during the preceding 24 hours, 7 tons 380 lbs.

Coal remaining on hand at Noon, 86 " 2044 "

P. M.																	
1				W.S.W.	W.S.W.	2			29.87	87	86	80		b.c.	Cir cum.	8	S.
2				"	"	2			29.87	87	86	80		"	"	8	"
3				S.W by S.	S.S.W.	2			29.86	88	87	81		"	"	7	"
4				S.S.W.	"	2			29.85	88	86	81		"	"	8	"
5				"	"	2			29.85	89	87	81		"	"	8	"
6				S.W.	"	2			29.80	85	86	80		b.c.z.	"	6	"
7				W.S.W.	W.S.W.	2			29.79	85	85	81		"	"	5	"
8				W.W. by W.	"	2			29.88	85	84	81		"	"	6	"
9				West	West	2			29.81	84	83	81		"	"	6	"
10				W.W.W.	"	2			29.79	84	83	81		"	"	7	"
11				W.W.W.	"	2			29.80	84	83	81		"	"	6	"
Mid.				W.W. by W.	N.W by N.	2			29.80	84	83	80		"	"	6	"

under the command of Commander F. F. Jewell, U. S. Navy,

Monday ~~August~~ 20th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Clear warm and pleasant. Light airs from S.W. & W.S.W. Steaming up Kue Channel on N.N.E. 1/2 E. course two hours. Last hours standing in for Kobe harbor. Made Ships No. 44. Marion & Palos answered. At 2:45 let go port anchor in 6 3/4 fms. Moored Ship 30 fms. on either chain. A boarding officer from Marion came aboard. Hauled fires, and started fires in 1 & 3 for condensing. Ships draft 13' 7" fwd 15' 8" aft.

F. J. Soonis
Ensign U.S.N.

From 4 to 8 A.M.
Hazy, warm weather. Light airs from West & S.W. & Calms. Distilling. Clear hawse.

B. F. Waring
Lieut U.S.N.

From 8 A.M. to Meridian
Clear & warm. Light breeze from South to S.W. At 9:30 inspected at quarters, then cast loose the battery & secured again. Exercised at fire-quarters. Overhauled Shell Room & Magazine Flood Cocks & Gun Cotton primers. Recd on board from Marion John Lacey (C.T.) & J. H. Griffin (S.T.) General Court Martial Prisoners. Confined them in double irons. Corpl. Bussman was sent on board from the Marion. Distilling. Clear hawse.

C. F. Leavitt
Lieut U.S.N.

From Meridian to 4 P.M.:
Clear & warm. Light breeze from W.S.W. to S.S.W. Recd official visits from the Senior Officers of the Marion & the Palos. At 1:50 Flagship made signal to Essex 4961. Goes in hawse, port chain on top.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.:
Clear & warm. Pleasant. Light breezes from S.S.W. & W.S.W. At sunset, sent down topgallant yards & Master. American Vice Consul paid official visit to ship. Elbow in hawse starboard chain on top.

C. S. Craig
Naval Cadet U.S.N.

From 8 P.M. to Midnight:
Hazy, warm weather. Light breezes from West & S.W. by S. Elbow in hawse, starboard chain on top.

B. F. Waring
Lieut U.S.N.

Examined and found to be correct.

R. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Kobe Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				W. S. W.	N.W. by N.	1			29.80	84	82	80		b.c.v.	cir cum.	6	S.
2				"	"	1			29.80	84	82	80		"	"	7	"
3				"	S.W. by W.	1			29.80	84	82	80		"	"	7	"
4				"	"	1			29.80	83	82	80		"	"	8	"
5				S.W. by W.	S.W.	2			29.80	83	82	80		"	"	6	"
6				S.E.	"	2			29.80	82	82	79		"	"	8	"
7				S.S.E.	"	2			29.80	83	83	79		"	"	8	"
8				N.N.W.	West.	2			29.81	83	83	79		"	"	7	"
9				"	"	2			29.82	85	83	79		b.c	"	8	"
10				W. by S.	"	2			29.82	86	84	80		"	"	5	"
11				W.S.W.	"	2			29.83	86	85	81		"	"	5	"
Noon.				"	"	2			29.83	86	85	81		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1500 "

Water remaining on hand fit for use at Noon, 2600 "

Coal consumed during the preceding 24 hours, 1 tons 1760 lbs.

Coal remaining on hand at Noon, 85 " 284 "

P. M.														
1			S. W.	S. W.	1	29.82	79	86	80	b.c.g.	cir cum.	7	S
2			West	West	2	29.79	83	85	79	"	"	7	"
3			"	"	2	29.79	87	86	79	"	"	8	"
4			"	"	2	29.79	87	87	80	"	"	8	"
5			"	"	2	29.78	87	86	79	b.c.	"	6	"
6			"	"	2	29.78	87	86	79	"	"	6	"
7			N.W. by W.	"	2	29.78	86	85	79	"	"	5	"
8			West	"	1	29.80	85	84	79	"	"	5	"
9			S. W.	S. W.	1	29.80	85	84	80	"	"	6	"
10			"	"	1	29.80	85	84	80	"	"	7	"
11			N. W by N	N.W.	1	29.80	85	84	80	"	"	7	"
Mid.			N. N. W.	"	1	29.80	85	84	80	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday August 21st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ed until 4 A.M.
Clear Hazy. Pleasant. Bright moonlight
Light airs from N. W. by N. to S. W. by W. Elbow in hawse, port chain on top.
Distilling

C. A. Decker
Lieut U. S. N.

From 4 to 8 A.M.
Clear Ed warm. Light airs from S. W Ed West.
Made preparations for coaling ship. Began at 7:20. Coal inspected by by board of inspection, of which Chf Engr Stivers was senior member
Elbow in hawse, stbd chain on top. At 7:30 sent up T. G. yards Ed masts.

W. B. Haggatt
Ensign U. S. N.

From 8 A M to Meridian.
Fair Ed pleasant. Light breezes from West.
Held medical survey on John Hackett (1st C. F.). At 11:20 finished coaling ship. Recd on board 60 tons Takasima coal. Stowed on deck 21 tons of the coal. At 9:30 made signal num. 6, sick report. At 9:45 Marion made signal to Essex 1961. Cross in hawse, starboard chain on top. Distilling

C. A. Craig
Naval Cadet U. S. N.

From Meridian to 4 P. M.
Clear, warm Ed pleasant. Light airs to light breeze from S. W Ed West. Squally. Cleared hawse. A board of inspection of which Surgeon J. A Hawke was senior member met to inspect, as to amount, certain medical stores furnished by Brett Ed Co. of Yokohama. Clear hawse at end of watch. Distilling

F. J. Boomer
Ensign U. S. N.

From 4 to 8 P. M.
Clear, warm weather. Light breeze from West. At 5:10 sent down Topgallant yards. At 6:00 stopped distilling and hauled fires. Clear hawse. Flagship signalled prep. Ed Gen. 6144.

B. H. Darling
Lieut. U. S. N.

From 8 P M to Midnight:
Clear, warm Ed pleasant. Light airs from S. W. first half, shifting to N. W. last half. Clear hawse.

F. J. Boomer
Ensign U. S. N

Examined and found to be correct.

C. C. Galloway
Lieut Ed Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Kobe Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. S. W.	West	1			29.78	83	87	79		b. s.	cir cum.	8	S
2				"	"	1			29.78	83	82	79		"	"	8	"
3				N. by S.	"	1			29.77	83	82	79		"	"	8	"
4				"	"	1			29.78	83	82	79		"	"	8	"
5				N. N. W.	"	2			29.79	83	82	79		"	"	7	"
6				N. W.	S. W.	2			29.80	83	81	78		"	"	6	"
7				"	"	2			29.81	83	81	78		"	"	6	"
8				N. N. W.	"	2			29.82	83	81	79		"	"	5	"
9				N. W by W.	"	2			29.83	83	82	78		"	"	6	"
10				S. W by S.	"	3			29.84	84	83	78		"	"	6	"
11				W by S	"	3			29.84	85	84	79		"	"	6	"
Noon.				S. W.	"	3			29.84	85	82	79		"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 500 "

Water remaining on hand fit for use at Noon, 2750 "

Coal consumed during the preceding 24 hours, 1 tons 50 lbs.

Coal remaining on hand at Noon, 144 " 234 "

P. M.														
1			S. W.	S. W.	2	29.83	86	85	79	b. s.	cir cum.	6	S.
2			"	"	2	29.83	86	85	79	"		6	"
3			S. W. by W.	"	2	29.82	87	86	80	"		5	"
4			S. W.	"	2	29.82	87	86	80	"		5	"
5			N. W. by W.	"	2	29.82	87	86	80	"		5	"
6			N. E.	N. E.	1	29.82	87	86	79	"		6	"
7			N. N. E.	N. N. E.	1	29.82	87	86	79	"		6	"
8			N E by E	"	1	29.81	85	85	80	"		6	"
9			N. E.	"	1	29.82	84	84	79	"		7	"
10			E. N. E.	Calm	0	29.84	84	84	79	"		7	"
11			"	"	0	29.85	84	84	79	"		6	"
Mid.			"	"	0	29.86	84	83	79	"		6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday August 22nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear & pleasant. Light airs from West.
Clear hawse.

C. L. Craig
Naval Cadet U.S.N.

From 4 to 8 A.M.:
Partly clear & pleasant. Light breezes from West & S.W. At 7:30 crossed t.g. yards with flagship. Recd for issue in Pay Dept. 113½ lbs each of fresh beef & vegetables & 91 lbs fresh head. Clear hawse.

M. B. Taggart
Ensign U. S. N.

From 8 A.M. to Meridian:
Clear warm & pleasant. Light to gentle breezes from S.W. At 9:40 mustered crew at quarters & exercised 1st, 2nd & 3d Divisions at great guns. Powder Division at stations. At 10:15 called away boats & stationed crews. Clear hawse.

B. H. Wadleigh
Lieut U. S. N

From Meridian to 4 P.M.:
Fair & warm. Light breeze from S.W.
Clear hawse.

A. F. Fechteler
Lieut U.S.N

From 4 to 8 P.M.:
Clear, warm. Light airs from S.W. to N.W. At 5 o'clock sent down t.g. yards & bent light sails with Flagship. Clear hawse.

M. B. Taggart
Ensign U.S.N

From 8 P.M. to Midnight
Clear warm & pleasant. Light airs from N.N.E. first hour. Calm remainder of watch. Clear hawse.

F. J. Forrest
Ensign U.S.N.

Examined and found to be correct.

E. E. Galloway
Lieut & E Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Kobe Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N.E. by E.	Calm.	0			29.85	85	83	78		b.c.	cir cum.	6	4
2				"	"	0			29.87	85	83	78		"	"	6	"
3				E.S.E.	"	0			29.88	84	83	78		"	"	7	"
4				N.E.	North	1-0			29.89	84	82	78		"	"	4	"
5				N.E. ½ E.	Calm.	0			29.89	82	81	77		"	"	4	"
6				"	"	0			29.90	82	81	76		"	"	6	"
7				N.E.	"	0			29.90	82	81	77		"	"	4	"
8				"	S.E.	1			29.91	82	81	77		"	"	3	"
9				"	"	1			29.92	84	82	78		"	"	3	"
10				"	"	1			29.92	84	83	78		"	"	2	"
11				"	"	2			29.93	84	83	78		"	"	6	"
Noon.				E.N.E.	West	2			29.92	85	83	78		"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 143 " 2074 "

P. M.														
1		N by E.	N.N.W.	3	29.89	85	84	79		b.c.	cir cum.	6	8
2		N.N.W.	"	3	29.87	86	85	79		"	"	5	"
3		"	West	3	29.87	86	85	78		"	"	4	"
4		"	"	2	29.87	86	85	78		"	"	5	"
5		"	"	2	29.89	86	85	78		"	"	6	"
6		West	"	2	29.90	86	85	78		"	"	6	"
7		N.N.W.	"	1	29.90	86	85	78		"	"	5	"
8		N.E.	Calm	0	29.90	85	83	78		"	"	7	"
9		"	"	0	29.90	84	82	78		"	"	8	"
10		N.E. by N.	N.W.	1	29.90	83	82	77		"	"	8	"
11		N.N.E.	"	1	29.90	83	81	76		"	"	8	"
Mid.		North	"	1	29.90	82	80	75		"	"	8	"

under the command of Commander I. F. Jewell, U. S. Navy,
Thursday August 23d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
clear, pleasant weather. Light airs from North & Calm. Clear hawse.

B. F. Waring
Lieut U. S. N.

From 4 to 8 A.M.:
Generally cloudy. Pleasant. Calm until last hour, when light airs from S.E. At 6:30 Marion made Signal 5467. Called all hands, crossed topt & royal yards & loosed sail to a bowline. Clear hawse.

A. F. Leonard
Lieut U. S. N.

From 8 A.M. to Meridian:
Generally clear, warm. Light airs & breeze from S.E. & West. At 9:30 mustered crew at quarters & exercised as follows: 1st & Powder Divs., rifles, 2nd Div. instruction in great guns, 3d Div, single-sticks. Rear Admiral Chandler, & the Comdg Officer of the Palos paid visits to the ship. At 11:30 furled sail with Flagship in obedience to Gen. Sig. 4876 Clear hawse.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P.M.
Fair, warm & pleasant. Gentle breezes from N.N.W. & West. The Japanese mail steamer Saikio Maru came in to the harbor. Clear hawse.

C. S. Craig
Naval Cadet U. S. N.

From 4 to 8 P.M.:
Fair & warm. Light airs to light breeze from West. At 5:00 Flagship Marion made Prep. 5422. Answered. Sent down light yards & unbent light sails Clear hawse.
By order of Comdg. Officer released F. Johnson (o. s.) from confinement.

F. J. Boyd

From 8 P.M to Midnight:
Ensign U. S. N.
Clear & pleasant. Calm, & light airs from N.N. The Consular police brought on board J. Jurgens (S.F.P.) & A. C. Hansen (P.A.G.) Placed the latter under sentry's charge, he being drunk.

A. F. Leonard
Lieut U. S. N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Kobe Japan and at sea on the passage to Chemulpo, Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				North	N. W.	1			29.88	80	79	75		b.c.l.	Cir Cumy.	8	S.
2				N. W.	"	1			29.88	80	79	76		"	"	7	"
3				West	West.	0			29.88	80	79	76		"	"	5	"
4				"	"	0			29.88	80	80	76		"	"	3	"
5				North	Calm.	0			29.90	80	80	76		b.s.	"	3	"
6				"	"	0			29.91	80	80	76		"	"	4	"
7				N. E.	N. E.	0-1			29.92	80	79	76		"	"	3	"
8				"	"	1			29.93	80	79	76		"	"	2	"
9				N. E by N.	S. W.	1			29.94	83	81	78		"	"	3	"
10				N. E.	"	1			29.94	80	80	77		"	"	3	"
11				N N. E.	"	1			29.93	83	82	77		"	"	2	"
Noon.				N. E.	"	1			29.90	83	82	77		"	"	2	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2050 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 143 " 1674 "

P. M.																	
1				North	S. W.	2			29.90	83	82	77		b.s.	cir nims	7	S
2				"	"	2			29.90	83	82	77		o.s.	"	0	"
3				S. W.	"	1			29.89	82	82	77		"	"	0	"
4				"	"	2			29.89	83	82	77		"		0	"
5				W S. W.	West	2			29.87	83	82	77		b.s.	cum nimb.	1	"
6				West	"	1			29.86	82	81	76		"	"	2	"
7				N W by N.	S. W.	2			29.87	83	82	78		"	"	1	"
8				West	W N W.	1			29.87	82	81	77		o.c.d.s.	"	0	"
9				N N W.	S. W.	2			29.85	82	81	77		"	"	0	"
10	3	1	3.1	W by S.	"	2			29.90	82	81	75	78	"	"	0	"
11	6	9	10.0	W. S. W.	"	2			29.90	82	81	75	78	"	"	0	"
Mid.	8	0	18.0	"	"	2			29.88	81	79	74	78	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday August 24th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Generally clear, pleasant. Light airs from N.W. & West. Clear hawse.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.
Cloudy, warm & pleasant. Calms & light airs from N.E. At 7:15 Marion made divn signal 887, & at 7:30 preparatory sig. 6069. & signal of execution. Crossed topgallant & royal yards. Recd on board in Pay Dept. 91 lbs bread & 113¾ lbs each of fresh beef & vegtables. Clear hawse.

C. S. Craig
Naval Cadet U.S.N.

From 8 A.M to Meridian:
Cloudy & warm. Light airs from S.W., at 9:30 mustered & inspected at quarters. Exercised Divs. as follows: 1st, 3d & Powder Divs. single sticks & 2nd div. Rifles. Exercised torpedo division at stations with oral instructions. Clear hawse. By order of Comdg Officer released A Hansen S.A.G. from sentrys charge.

J. J. Francis
Ensign U.S.N.

From Meridian to 4 P.M.
Overcast warm weather, with light sprinkling rain last hour. Light airs & breezes from S.W. Clear hawse.

B. H. Walling
Lieut U.S.N.

From 4 to 8 P.M.
Generally cloudy & warm. Light airs from West & W.N.W. At 5:00 Marion made signals 6070, Called all hands. Sent down royal yards. At 5:15 made Int. Sig 4560. Marion answered "yes". At 5:30 started fires in six boilers. At 5:55 made Int. Sig. 3564. Marion answered "yes". Made preparations for sea. Clear hawse. Starboard chain brought to at end of watch.

A. F. Fechteler
Lieut U.S.N.

From 8 P.M to Midnight:
Overcast & cloudy, with light drizzling rain & lightning to Sd & Wd. Light breeze from S.W. At 9:20 signaled Int. Vens code. Flagship ans. 90°. At 9:27 got under way. Standing out Kobe Harbor and through Akashi Straits, Captain or Navigator at comm. Steam in six boilers, no sail set. At 11:00 set course W.S.W. P.L. 18. Land on port hand. Ships draft 16' 3" fwd. 16' 4" aft.

T. J. Francis
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Kobe Japan to Chemulpo Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.	7	0		W. S. W.													
1	6	5	76.5	W.S.W. ½ W.	W.S.W.	1-2			29.88	82	81	77	80	b. c.	Cir Cum.	2	S.
2	8	11	34.6	"	West	1-2			29.88	82	81	77	80	"	"	4	"
3	8	6	43.2	"	"	1-2			29.88	81	81	76	80	"	"	2	"
4	8	3	51.6	Variable	N.N.W.	0-1			29.88	81	81	76	80	0. p.	"	0	"
5	8	0	59.5	N.W. by W ½ W.	"	1			29.88	81	80	76	80	"	"	0	"
6	3	7	63.2	W by N. W. by S.	S. W.	2			29.88	80	79	76	80	b. c.	"	3	"
7	7	4	70.6	"	W.S.W.	2			29.89	80	79	75	80	"	"	5	"
8	7	1	77.7	Variable	"	2			29.90	81	80	76	80	"	"	6	"
9	6 0	6 8	84.3 85.1	W.S.W. ¾ W. W.S.W. ½ W.	N.N.W.	2			29.90	81	80	76	81	"	Cum.	5	"
10	1 6	9 0	87. 93.	W. by N.	"	2			29.91	81	80	76	81	"	"	6	"
11	8	0	101.	W.N.W.	"	2			29.91	81	80	76	80	"	"	4	"
Noon.	7	8	8.8	Variable	"	2			29.91	81	80	76	80	"	"	3	"

Course and distance made good since preceding noon by observations, Various (Inland Sea) 115 knots, tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 17 00 "

Coal consumed during the preceding 24 hours, 14 tons 1530 lbs.

Coal remaining on hand at Noon, 129 " 144 "

P. M.																		
1	7	0	15.8	Variable	W. S. W.	2	29.88	82	81	76	79	b. c.	air cum.	3	S.
2	8	2	24.0	"	"	2	29.88	82	80	75	78	"	"	3	"
3	7	8	31.8	S. W. ¼ W.	"	2	29.89	81	80	75	76	"	"	2	"
4	7	6	39.4	"	"	2	29.88	82	80	76	76	"	"	2	"
5	6 1	2 6	45.6 47.2	W.S.W. W. ¾ W.	"	2	29.88	81	79	76	76	"	"	1	"
6	6 1	8 0	54.0 55.0	W. S. W.	"	2	29.88	81	79	76	76	"	"	3	"
7	2 3	0 7	57.0 60.7	W.S.W. ¾ W.	West	2	29.88	81	79	76	77	"	"	5	"
8	3 5	7 9	64.6 70.5	W.S.W. ½ W.	"	2	29.89	81	79	76	77	"	"	4	"
9	5 2	3 6	75.8 78.4	W.S.W. ½ W.	W.S.W.	2	29.89	81	80	77	77	"	"	6	"
10	8	4	86.8	W.N.W. ¼ W.	W.N.W.	2	29.89	81	80	77	77	"	"	6	"
11	8	4	95.2	"	"	2	29.89	81	80	77	77	"	"	5	"
Mid.	8	0	3.2	"	"	2	29.88	81	80	77	77	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday August 25th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Cloudy pleasant weather. Light airs and breezes from W.S.W. and West. Light airs from N.N.W. with Calms. Standing through the Hasima Nada until 7:30 when entered Hasima Straits. At 11:16 changed course to W.S.W.½W. At 2:30 to West and rounded South end of Ozu Sima Sgizo Hana point bearing abt 4, N.W.by N. distant 2 miles. Captain conning ship. P.L. 51.5

R. H. Wallace
Lieut U.S.N.

From 4 to 8 A.M.
Generally cloudy. Pleasant. Light airs to light breezes from S.W. and W.S.W. Standing through Hosima Straits with Commander conning the ship first half, and Navigator second half of watch. At end of watch Koyo Sima Lt abaft the starboard beam, dist. about two mils. At 6.00 hauled in Pat. Log. the propeller having fouled, and failed to turn, to clear it.

C. A. Lucas
Lieut U.S.N.

From 8 A.M to Meridian:
Partly clear, pleasant. Light breeze from N.N.W. Standing through Aogi Seto at end of watch, with the Captain at the comm. By order of the Comdg Officer, John Lacey (C.T.) and J. H. Griffin (S.T.) Gen. Court Martial prisoners were relieved of their irons while at sea.

W. B. Howgate
Ensign U.S.N.

From Meridian to 4 P.M.
Fair to cloudy. Light breeze from W.S.W. Steaming through Aogi Seto until 3 O'Clock, when set course S.W.¼S. At end of watch Adji Rk. bore E.S.E. and Black and White Rks, N.W.by N. about 3 miles distant. No sails set. P.L. 39.4

J. J. Fleming
Ensign U.S.N.

From 4 to 6 P.M.:
Fair, pleasant weather. Light breezes from W.S.W. Standing through Misima Nada under steam alone. At 5:21 Tsuin Sima Lt. Ho. bore S.E.¾S. distant one mile. At 6:15 changed course to W.S.W¼W. at end of watch Yuri Sima bore N.N.W. distant 1.5 miles. P.L. 55

R. H. Wallace
Lieut U.S.N.

From 6 to 8 P.M:
Pleasant. Generally cloudy. Light breeze from West. At 6:20 changed course to W.S.W. P.L. 57, at 7:17 to W.S.W.¾W. P.L 64.5 at 7:17 Kominato Id. bore N.N.W. dist. 1½ Mile

C. A. Lucas
Lieut U.S.N.

From 8 P.M to Midnight:
Partly clear, pleasant. Light breeze from W.S.W to N.N.W. at 8:42 changed course to W.S.W½W. and at 9:15 to W.N.W.¼W. Two steamers passed during watch, standing to the Sd. At end of watch eastern end of Hasima Sima bore (p.s.) S.by W¾W. Went to general quarters at 9:11: ready in 4 min. Moon rose at 9:50

W. B. Howgate
Ensign U.S.N.

Examined and found to be correct.

A. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Kobe, Japan to Chemulpo Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															Cir.		
1	7	9	11.1	N. N. W. 1/4 W.	N.S.W.	2			29.87	81	80	75	78	b.s.	Cum.	4	S
2	8	0	19.1	"	"	2			29.87	80	81	76	80	"	"	4	"
3	7	4	26.5	"	"	2			29.87	80	79	75	80	"	"	4	"
4	6	5	33.0	N.S.W.	"	2			29.87	80	79	75	80	"	"	4	"
5	1 5	4 7	34.4 40.1	N. W 1/4 W. N.W. 3/4 W.	West	2			29.88	81	79	75	80	"	"	3	"
6	4 3	6 8	44.7 48.5	N. W. 1/4 W. N. W. 1/4 N.	"	2			29.88	81	79	74	80	"	"	4	"
7	6	3	54.8		N.W.	2			29.88	80	79	74	80	"	"	6	"
8	1 1	4 1	56.2 57.3	N.W. 1/2 N.	"	2			29.89	81	79	76	80	"	"	6	"
9	7	8	65.1	Variable	West	3			29.87	80	79	75	81	"	"	6	"
10	7	8	72.9	N. N. W. 3/4 W. N.W. 1/4 N.	"	3			29.86	81	81	75	81	"	"	7	"
11	7	7	80.6	"	"	3			29.86	82	81	75	82	"	"	7	"
Noon.	7	3	87.9	"	"	3			29.87	82	82	76	82	"	"	7	"

Course and distance made good since preceding noon by observations, various — A.L. 179 knots. tenths.

Position at Noon:
- Latitude by ~~D.R.~~ Bearings — N. 34 ° 01 ′ 30 ″
- Longitude by ~~D.R.~~ Bearings — E 130 ° 22′ ″
- Latitude by observations of ⊙ — ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ — ° ′ ″

Position at 8 a. m.
- Latitude by — ° ′ ″
- Longitude by — ° ′ ″

Position at 8 P. M.
- Latitude by — ° ′ ″
- Longitude by — ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " — ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " — ° ′ ″

Water expended during the preceding 24 hours, 350 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1350 "

Coal consumed during the preceding 24 hours, 18 tons 1750 lbs.

Coal remaining on hand at Noon, 110 " 634 "

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.																	
1	8	6	96.5	W 1/4 N.	West	3			29.86	82	82	76	82	b.c.	Cir. Cum.	8	S.
2	7	1	3.6	"	"	4			29.85	82	82	76	82	"	"	9	"
3	3 3	9 0	7.5 10.5	N. N. W. 3/4 W.	"	4			29.84	82	82	76	82	"	"	8	"
4	7	0	17.5	"	"	3			29.84	81	81	75	81	"	"	8	"
5	6	9	24.4	"	"	3			29.84	81	81	75	79	"	"	9	"
6	7	4	31.8	"	"	3			29.84	81	81	75	79	"	"	8	"
7	7	6	39.4	N. 1/2 W.	"	3			29.83	81	81	75	79	"	"	8	"
8	7	5	46.9	"	"	3			29.83	81	81	74	80	"	"	8	"
9	7	1	54.0	W. by S.	W.S.W.	3			29.84	80	80	74	80	"	"	9	"
10	7	6	61.6	"	"	3			29.85	80	80	75	80	"	"	8	"
11	7	4	69.0	W 1/4 N.	"	2			29.85	81	81	76	80	"	"	8	"
Mid.	7	4	76.4	"	W by S.	1-2			29.85	80	80	77	80	"	"	7	"
	1730																

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday August 16th, 1868.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and until 4 A.M.

Fair and pleasant. Lt. to Sd and Wd. Light breezes from W.S.W. Steaming course N.N.W.½W. until last half hour when changed to N.W. At 2:15 hauled fires in 2d & 4 boilers and shifted fires to 1 & 3. At 3:05 sighted Simonoseki Lt., bearing N.W. by W.½W. D.L. 33.0

F. J. Boodnard
Ensign U.S.N.

From 4 to 8 A.M.

Fair, pleasant weather. Light breezes from W.S.W. and N.W. Standing for entrance to Simonoseki Straits until 5:55 when Isaki Lt. Ho. bore S.W. Remainder of watch standing through Simonoseki against strong head current. But changing course as necessary. At 8, S.K. end of Koburg Id bore N.N.W. distant 3 miles D.L. 37.3

R. G. Walling
Lieut U.S.N.

From 8 A.M to Meridian:

Clear and pleasant. Gentle breeze from W.S.W. Standing out of Simonoseki Straits, Commander conning the ship. At 9:26 took departure, Round Rock bearing (p.s.) S.W.½S. and Shirley Lt. S.E.¾S. Set course W.½N. At 9:30 inspected at quarters. Sent light sails.

A. F. Jewett
Lieut U.S.N.

From Meridian to 4 P.M.

Clear and pleasant. Gentle to mod. breeze from W.S.W. at 2:37 changed course to W.N.W.¾W. D.L. 7.5. Sighted Tsu Sima at 12:45 bearing (port) W.N.W.¾W. At end of watch Colnet Id. bore (p.s.) N.E.½E. and Otsy Id. S.E.½S. Smooth sea.

W. W. Hoggatt
Ensign U.S.N.

From 4 to 6 P.M.

Clear and pleasant. Gentle breeze from W.S.W. Smooth sea, No sail set. D.L. 31.8. Tsu Sima ahead and on both bows. Iki Sima abaft port beam.

J. J. Boodnard
Ensign U.S.N.

From 6 to 8 P.M.

Fair, pleasant weather. Gentle breezes from S.W. At 6:10 changed course to W.½S. Standing down for Southern point of Tsu Sima, which bore at 8, W.N.W. distant seven (7) miles. D.L. 46.9

R. G. Walling
Lieut U.S.N.

From 8 P.M to Midnight:

Clear and pleasant. From 9:40 bright moonlight. Gentle breeze from W.S.W., last hour light airs to light breeze from W.by S. At 8:05 changed course to W.by S. At 10:00 changed course to W.½N. Iki Sima in sight on starboard quarter at end of watch.

A. F. Jewett
Lieut U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Kobe Japan to Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	2	83.6	N¼N.	N.S.W.	2			29.85	80	80	77	80	b.c.	cir cum. strat.	8	4
2	6	2	89.8	"	"	2			29.85	80	80	77	80	b.c.f.	"	8	"
3	6	4	96.2	"	"	2			29.85	80	80	77	80	b.c.	"	7	"
4	7	3	3.5	"	N.N.W.	2			29.86	80	80	77	80	"	"	9	"
5	6	8	10.3	"	"	1			29.86	81	80	78	79	"	"	9	"
6	6	7	17.0	"	"	1			29.86	80	79	76	79	"	"	8	"
7	6	9	23.9	"	"	1			29.86	80	79	77	78	"	"	8	"
8	7	3	31.2	"	"	1			29.87	81	79	77	78	"	"	8	"
9	6	9	38.1	N.N.W½W.	S.E.	2			29.88	82	79	77	78	"	"	8	"
½	3		40.4	W by N.													
10	5	6	46.0	"	"	2			29.88	82	80	78	78	"	"	7	"
11	7	6	53.6	"	"	2			29.89	83	81	79	79	"	"	7	"
Noon.	8	5	62.1	"	"	2			29.89	83	82	79	77	"	"	7	"

Course and distance made good since preceding noon by observations, various (Coasting) 174 knots. 2 tenths.

Position at Noon:
- Latitude by ~~D.R.~~ Bearings — N. 33 ° 58' "
- Longitude by D. R. Bearings — E. 127 ° 29' "
- Latitude by observations of ⊙ — ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — ° ' "

Position at 8 a. m.
- Latitude by Bearings — N. 33 ° 56' 30"
- Longitude by Bearings — E. 127 ° 56' "

Position at 8 P. M.
- Latitude by — ° ' "
- Longitude by — ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Water expended during the preceding 24 hours, 230 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1120 "

Coal consumed during the preceding 24 hours, 15 tons 280 lbs.

Coal remaining on hand at Noon, 95 " 2524 "

P. M.																
1	6	9	69.0	N by W.	N.E.	2	29.86	81	80	77	80	b.c.	cum	5	S.S.
2	6	7	75.7	"	"	3	29.85	80	79	76	79	b.c.f.	cum nim	5	"
3	7	0	82.7	"	E.N.E.	2	29.84	81	80	78	80	b.c.	"	6	"
4	7	3	90.0	"	"	3	29.82	81	79	77	81	b.c.f.	"	7	"
5	4	7	94.7												
	2	8	97.5	N.½W.	East	3	29.86	82	80	77	80	b.c.	cir cum.	8	"
6	8	5	6.	"	"	3	29.88	82	80	77	80	"	"	7	"
	6	2	12.2												
7	3	0	15.2	West	"	3	29.88	82	80	78	80	"	"	7	"
8	9	0	24.2	"	"	3	29.86	82	80	79	80	"	"	8	"
9	9	2	33.4	W.N.W.¼W.	"	4	29.86	82	81	79	80	"	"	7	"
10	8	6	42.0	W by N	"	4	29.86	82	82	80	80	"	"	8	"
11	8	7	50.7	N.W. by N.¾N.	E by S.	4	29.86	82	82	80	80	"	"	7	"
Mid.	9	0	59.7	N.N.W.¾N.	"	4	29.86	82	81	80	79	"	"	7	"

under the command of Commander S. F. Jewell, U. S. Navy.

Monday August 27th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & wateh at 9 M.

Clear bright & pleasant. Light breeze from W.S.W. to W.N.W. At 11:45 headed for, from boiling 5 & 7 on account of leak in No 5. Ou course W by N. South sea.

M.B. Taggart
Ensign U.S.N.

From 4 to 8 9 M.

Clear, warm & pleasant. Light airs from W.N.W. Long swell from S.E & W. Ship rolling easily. Steam in four boilers. The sail ed 9 chain of small islands in sight on S.E.b.S. bearing P.L. 31.7

From 8 9 M to Meridian:

J. J. Forrest
Ensign U.S.N.

Clear warm weather. Light breeze from S & E. Long S.S.W. swell, ship rolling deeply but easily. At 9m changed course to W.N.W ½ W. & at 9:15 to W by N. At 9:30 mustered & inspected crew at quarters & exercised all divisions at stations. At 10m secured for alarm & at 11m all hands at quarters. Mustered crew & officers at the boats. At 9:35 all forward, at 11:30 took it in. Inspected dry gun cotton & found it in good condition. Tested Morgan's flood cocks & found them in good working order. Land in sight along S.E.b.S. bearing P.L. sail found in sight bearing W.S.W. At noon S.S.E. end of Port Hamilton bore W.N.W ½ W. distant 8 miles. P.L. 62.1. John Lang & J. J. Sheffer (S.F.) were relieved from confinement & mess prisoners at large after confined one hour before coming to anchor.

B. H. Wasing
Lieut U.S.N.

From Meridian to 4 P.M.

Fair & pleasant - occasional light passing showers. Light breeze from S.E. & E.b.E. At 11:30 set foresail. At 12:40 set mizzen & topsail. Crossed topgallant yards. At 1:25 both in topsails set flying jib & jib. At 3:05 started fires in boilers 5 & 7. Ship rolling deeply from long swell. At end of watch smoke steam & fires all put out, & in topsail. Course N by W. Islands in sight all around the horizon. except to S.E & E.

Lieut. U.S.N.

From 4 to 6 P.M.

Clear, bright & pleasant. South breeze from East. At 4:40 changed course to N.b.W. P.L. 34.7. At 4:50 coupled brakes 5 & 7 to engines. At 5:5 walker all hands & made sail to 4 sails. Smooth sea. Land in sight on starboard quarter & bow.

M.B. Taggart
Ensign U.S.N.

From 6 to 8 P.M.

Clear & pleasant. South breeze from East. Plain sail to 4 sails & steaming. Land on both bows ahead & abeam. P.L. 34.7 Race Pt. Monkshills N. by E. ½ E. N.W.b.W. about 6 miles distant.

J. J. Forrest
Ensign U.S.N.

From 8 P.M to Midnight:

Clear pleasant weather. Moderate breeze from East & E.b.S. Under steam & plain sail to 4 sails. At 8:15 sighted Whale Isl & at 8:30 changed course to round Northern end which bore at 9:10 S.S.E. distant 5 miles. At 9:10 set course N by W & at 10:35 changed to N.W by W.b.W. At 11:40 sighted Cape Ed bearing N.N.W by W. Changed course as follows: At 11:45 to N.W by W.½ W. At 11:55 to N.W.b.W ½ W. & at 11:40 to W.N.W ½ W. At Midnight Cape Ed bore W.b.S. distant one (1) mile. Long swell from S.E. Ship rolling heavily

P.L. 57.7

B. H. Wasing
Lieut U.S.N.

E. D. Galloway Lieut & [illegible]

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Apeg on the passage from Kobi Japan to Chemulpo, Korea,

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				N.N.W. 3/4 W.													
1	6½	7	66.4	North	E. by S.	3			29.82	77	76	72	71	b. c.	Cir Cum	8	S.L.
			68.5														
2	9	1	77.6	"	"	3			29.80	73	71	70	74	b. c. f.	"	7	"
3	8	7	86.3	"	East.	2			29.80	75	74	73	73	b. c.	"	7	S.
	½	8	89.1														
4	5	8	94.9	N 1/2 E.	"	2			29.80	77	76	74	75	"	"	7	"
	7	6	2.5														
5	1	1	3.6	N. by E.	"	3			29.80	77	76	74	78	"	"	6	S.L.
6	8	6	12.2	"	"	3			29.83	78	78	74	80	"	"	6	"
7	8	9	21.	"	"	3			29.85	79	79	76	80	"	"	7	"
8	8	8	29.8	"	"	3			29.84	80	79	76	79	"	"	7	"
9	8	7	38.5	"	"	3			29.84	80	80	76	79	"	"	7	"
10	2	0	40.5	"	"	3			unshuffled	81	76	79	"	"	7	"	
11	0	4	41.2	"	"	3			for target practice	82	78	79	"	"	7	"	
Noon.	7	3	48.5	"	"	3			29.85	83	82	79	80		"	7	"

Course and distance made good since preceding noon by observations, various (Coasting) 186 knots. 5 tenths.

Position at Noon:
- Latitude by ~~D.R.~~ Bearings — N. 35 ° 28 ' "
- Longitude by ~~D.R.~~ Bearings — E. 125 ° 48 ' "
- Latitude by observations of ⊙ — ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — ° ' "

Position at 8 a. m.:
- Latitude by Bearings — N. 35 ° 12 ' "
- Longitude by Bearings — E. 125 ° 47 ' "

Position at 8 P. M.:
- Latitude by — ° ' "
- Longitude by — ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 760 "

Coal consumed during the preceding 24 hours, 14 tons 2160 lbs.

Coal remaining on hand at Noon, 80 " 434 "

P. M.																	
1	8	2	56.7	N. by E.	N. E.	3			29.86	84	82	78	82	b. c.	Cir Cum	6	S.L.
2	8	7	65.4	"	"	3			29.87	84	82	77	81	"	"	4	"
3	8	3	73.7	"	N. E. by N.	3			29.86	84	82	77	81	"	"	3	"
4	8	1	81.8	"	N. N. E.	3			29.86	84	82	78	81	"	"	2	"
5	7	7	89.5	"	"	3			29.84	83	83	78	81	b. c. d.	Cum Nim	2	S.
6	7	6	97.1	"	"	3			29.82	82	81	76	81	"	"	2	"
7	7	9	105.0	N. 3/4 E.	N. E. by N.	3			29.82	82	81	77	81	b. c.	"	2	"
8	7	4	12.4	"	"	3			29.87	81	80	76	79	"	"	4	"
9	7	7	20.1	"	"	3			29.87	79	79	76	77	"	"	4	"
10	8	2	28.3	N. N. E. 1/4 E.	"	3			29.83	79	78	75	75	"	"	5	"
11	8	1	36.4	N. N. E.	"	2			29.83	79	78	75	75	"	"	5	"
Mid.	8	3	44.7	"	"	2			29.82	80	79	76	75	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday August 7th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ed until 4 A. M.

Generally clear Ed pleasant. Bright moonlight. Second hour foggy. Light to gentle breeze from E by S. Ed E by N. At 12:55 changed course to North, P.L. 67.4 At 1:35 took in topgt sails, Ed at 2:55 topsails. At 3:00 Smigh Id. was on port beam, dist. about ½ mile. At 3:00 changed course to ~~West~~ N¼W. P.L. 86.3 Ed at 3:20 to N½E. P.L. 89.1 At 4:00 set fore Ed aft sail. At end of watch under fore Ed aft sail, fore sail Ed steam.

C. A. Jewett
Lieut U.S.N.

From 4 to 8 A. M.

Clear Ed pleasant. Gentle breeze from East. At 4:55 changed course to N. by E. Pinnacle Id. bearing p.s. Ed S. At end of watch South end of South Id. bore p.s. E by S. dist. 5.7 miles Under steam, fore Ed aft sail Ed fore sail. Mod. long swell from South.

E. W. Stoggatt
Ensign U.S.N.

From 8 A M to Meridian:

Clear Ed pleasant. Gentle breeze from East. At 9:30 beat to general quarters Ed exercised at target practice. Expended in Ord. Dept. 6-8" 34 lb charges Ed bags, 6-60 Pdr. 6 lb charges Ed bags 12-9" charges Ed bags, 3-3" charges Ed bags, 6-8" Butler shells, 12-9" 5 Dec Shell, 6-60 pdr pers. shell, 3-3" pers. Shell, 10 st. ft. closing primers, 60 pdr, 24 quill pers. Primers 9", 10 quill friction primers 8", 5 metallic primers 3", 1 exercise G.C. Torpedo, 1 Secondary spar. Fired an exercise torpedo. At 10:55 resumed course N. by E. Ed made plain sail to t.g. sails. At 12:00 took in all sail. Islands on port fore Ed beam. P.L. 48.5

E. J. Loomis
Ensign U.S.N.

From Meridian to 4 P. M.

Cloudy pleasant weather with light sprinkling rain last hour. At 1:00 set fore Ed aft sail, took it in at 2:30. Steering a course N. by E. At 2:30 sighted Conference Id. Land in sight along starboard bow Ed beam. Passed Swan Mani standing to S. At 4:00 Kelnido bore S.E. by E. Send Guerin Id. N.E¼E. P.L. 81.8

B. T. Walling
Lieut. U.S.N.

From 4 to 6 P. M.

Cloudy. Occasional light showers. Gentle breeze from N.N.E. Islands in sight on both bows Ed stbd beam. At end of watch Conference group on starboard beam.

C. A. Jewett
Lieut U.S.N.

From 6 to 8 P. M.

Partly clear, pleasant. Gentle breeze from N.E. by N. On course N.¾E. during watch. Land in sight on stbd Ed port bows at end of watch. Smooth sea.

E. W. Stoggatt
Ensign U.S.N.

From 8 P. M. to Midnight.

Fair Ed pleasant. Moon rose at 10:10. Light breeze from N.E. by N. Steaming course N.¾E. until 9:15 when changed course to N.N.E. at 9:45 to N.N.E.¼E. Ed at 10:20 to N.N.E. Islands in sight on both bows Ed beams. Standing up East Channel, Captain at conn. P.L. 44.7

E. J. Loomis
Ensign U.S.N.

Examined and found to be correct.

C. H. Galloway
Lieut Ed Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Kobe, Japan & Moored in the harbor of Chemulpo.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	8	4	53.1	N.E. by E.	N.E. by N.	2			29.8r	78	77	75	75	b.s.	cir Cum.	4	
2	6	3	59.4	E. N. E.	"	2			29.8r	78	77	76	75	"	"	3	
3	6	5	65.9	N. E.	"	2			29.8r	79	78	77	76	"	"	r	
4	8	1	74.0	N.E. by N.	"	2			29.8r	79	78	76	76	"	"	1	
5	7	4	81.4	Variable	N.N.E.	2			29.83	80	80	77	76	"	"	3	
6	5	0	86.4	Standing in to Harbor of Chemulpo	"	2			29.84	79	79	77	76	"	"	5	
7				S. S. W.	"	1			29.84	80	79	77	76	"	"	3	
8				"	"	1			29.84	80	79	77		"	"	3	
9				"	E. S. E.	2			29.84	80	79	77		"	Cum	4	
10				N. E.	"	2			29.84	82	80	78		"	"	3	
11				"	"	2			29.84	83	81	77		"	"	3	
Noon.				N. E by N.	"	2			29.8r	83	81	77		"	"	r	

Course and distance made good since preceding noon by observations, Various (Coasting) 139 knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 260 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 500 "

Coal consumed during the preceding 24 hours, 9 tons 1300 lbs.

Coal remaining on hand at Noon, 70 " 1374 "

P. M.											
1	Ebb.	N.E. by N.	N. E.	2	29.81	83	81	77	b.s.	Cum	2	S
2	Ebb.	N. E.	"	2	29.80	84	83	77	"	"	2	"
3	Slack	E. S. E.	"	2	29.79	84	84	78	"	"	2	"
4	Flood.	S. by E.	"	2	29.79	84	84	78	"	"	2	"
5	"	South	"	2	29.79	84	84	78	o.s.	"	0	"
6	"	"	"	2	29.79	84	83	78	"	"	0	"
7	"	"	"	2	29.78	85	83	78	"	"	0	"
8	"	"	"	3	29.78	84	82	77	"	"	0	"
9	"	"	"	3	29.78	83	82	77	b.s.g.	"	2	"
10	Ebb.	E. N. E.	"	3	29.78	83	82	77	"	"	3	"
11	"	N. E.	"	3	29.78	83	82	76	"	"	4	"
Mid.	"	"	"	3	29.78	83	82	76	"	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday August 29th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Cloudy, pleasant weather. Obscured moonlight. Standing for entrance to Seoul River, on course N.E. by E. until 2:00, after which standing up river on various courses. At 3:45 White Rocky bore W.N.W. At 2:10 slowed & stopped engines: went ahead slow at 2:20 and ahead fast at 2:45. Light Southerly swell. P.L. 84.0

B. Wasing
Lieut U.S.N.

From 4 to 8 A.M.
Generally cloudy. Pleasant. Light airs to light breezes from N.N.E. Standing in for anchorage off Chemulpo. At 5:30 exchanged signals with the U.S.S. "Juniata". At 5:45 made Int Sig. 1211 "Juniata" answered, 1211. At 6:00 made 5405. At 6:07 anchored with stdrboard anchor, 30 fms. chain in 7½ fms. water. At 7:45 moored with 30 fms. on each chain. Clear hawse. Flood tide. Bearings at moorings, (P.E.): Beacon on Sunaly Id. E.N.E 3/8 E.; Stump on Roze Id. N.N.E 3/4 E. - Ship's head N.N.E 1/2 E. Ships draft 13'7" fwd. 15'9" aft.

C. F. Pilkington
Lieut. U.S.N.

From 8 A.M to Meridian:
Cloudy, pleasant weather. Light breezes from E.S.E.. Rec'd visits of courtesy from officers from H.I.R.M.S. Moltke, and Chinese vessel Tai Tsung. Transferred John Lacy (C.P.) and J.H. Griffis (P.F.) G.C.M. prisoners to U.S.S. Juniata. Also F. Pilkington S.A. vice P. John Hackett (1 P.F.) Wm Beamsley and Ernest Smith, Sea. At 8:45 made gen. Sig. Int 4557 to Juniata. Answered 9:04. At 9:35 made signal numeral pennant 6 to Juniata. At 9:40 the Juniata got under way and left the harbor. Juniata made signal 4604. At 10: a.m. transferred 11 pks. Paymasters clothing received on board at Yokohama for Juniata. Sent officer to pay the Commanders respects to the U.S. Minister Resident at Seoul, now in Chemulpo. Clear hawse. Hauled fires from 4 fires at 9 A.M.

W.B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.
Fair and pleasant. Cumm. clouds. Light breezes from E.N.E. Ebb tide until 2:30 when swung to flood. Clear hawse. At 2:00 began distilling. The Comdg. Off. paid an official visit to the U.S. Minister to Corea, now at Chemulpo.

F. J. Lovering
Ensign U.S.N.

From 4 to 8 P.M:
Cloudy pleasant weather. Light to gentle breezes from N.E. At 5:10 sent down t.g. yards. At 5:20 H.M.S. Rattler came in and anchored. Sent an officer to make usual offers of courtesy. Visit returned by English officer. Clear hawse. Distilling.

W.B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight:
Fair, cool and pleasant. Gentle breezes from N.E. Squally. At 10:00 swung to ebb. Clear hawse. Distilling

F. J. Lovering
Ensign U.S.N.

Examined and found to be correct.

A. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Christiansund, Norway.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N.N.E. ½ E.	E.N.E.	1			29.77	80	81	74		b.s.	Cir Cum.	4	S
2	"			N.E.	"	2			29.77	80	81	74		"	"	4	"
3	"			East	"	2			29.77	80	81	74		"	"	4	"
4	Flood.			S.E.	"	2			29.77	79	80	74		"	"	4	"
5	"			S. by E.	"	2			29.78	79	80	74		"	"	1	"
6	"			"	"	2			29.78	80	79	73		"	"	1	"
7	"			S. by W.	N by E.	2			29.79	80	78	73		"	"	1	"
8	"			South	N.E.	2			29.77	80	78	74		"	"	2	"
9	"			"	"	2			29.76	80	79	75		"	"	3	"
10	"			S.E.	"	2			29.76	81	80	76		"	"	2	"
11	Ebb.			N.E.	East	2			29.74	82	81	75		"	"	1	"
Noon.	"			N.N.E.	"	2			29.73	82	81	76		o.s.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 1360 "

Water remaining on hand fit for use at Noon, 1500 "

Coal consumed during the preceding 24 hours, 1 tons 1400 lbs.

Coal remaining on hand at Noon, 68 " 3214 "

P. M.												
1	Ebb.	N. N. E.	N. E.	2	29.74	83	82	77	o.c.s.	Cum	0	S.
2	"	"	"	2	29.74	83	82	77	"	"	0	"
3	Slack	North	"	2	29.74	83	82	77	b.s.	"	4	"
4	Flood	East	East	1	29.72	82	83	78	"	"	2	"
5	"	"	"	2	29.73	82	80	78	"	"	5	"
6	"	S. E.	N. E.	2	29.74	83	81	76	"	"	5	"
7	"	South	"	3	29.74	83	82	76	"	"	4	"
8	"	"	"	3	29.71	82	82	76	"	"	5	"
9	"	"	N. N. E.	3	29.70	81	80	75	"	"	6	"
10	Slack	S. S. W.	"	3	29.69	80	80	75	"	"	8	"
11	Ebb	N. N. E.	"	2	29.70	79	78	73	"	"	8	"
Mid.	"	"	"	2	29.70	78	77	72	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday August 30th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.:
Cloudy and pleasant and cool. Light breezes from E. N. E. Slack water at 3:00 and swung to flood. Clear hawse. Distilling.

C. D. Craig.
Naval Cadet, U.S.N.

From 4 to 8 A. M.
Cloudy, pleasant weather. Light breezes from E. N. E. to N. E. At 7:15 crossed t. g. and royal yards and loosed sail to a bowline. Clear hawse. Distilling

W. B. Stoggatt
Ensign U.S.N.

From 8 A. M to Meridian:
Cloudy and pleasant. Light breezes from N. E. first half and East last half. At 11:00 swung to flood. The Commanding Officer paid official visits to the Japanese, Chinese and Russian men-of-war The Comdg officer of H. B. M. S. "Rattler" paid an official visit to the ship. At 9:30 mustered and inspected at quarters. Exercised 1st 2nd and 3d divs. at great guns and Engr. Division at Machine guns clear hawse. Distilling

J. J. Boorman
Ensign U.S.N.

From Meridian to 4 P. M.
Cloudy and pleasant, overcast first two hours. Very light passing showers first part of watch. Light breezes from N. E. and East. Received official visits from the U. S. Minister Resident to Soul, Korea, the English Consul, the Commissioner of Customs and the Commanding Officer of the Russian Ship Korietz (Corvette) Also an official visit of an officer of a Japanese man-of-war informing the Comdg Officer that his Comdg Officer was away on leave. Clear hawse. Distilling.

C. D. Craig
Naval Cadet U.S.N.

From 4 to 8 P. M.
Fair and pleasant. Light to gentle breezes from East. and S. E. At 4:45 swung to flood. Clear hawse. Distilling.

J. J. Boorman
Ensign U.S.N.

From 8 P. M to Midnight:
Clear and pleasant. Light to gentle breezes from N. N. E. Slack water at 10:00 and swung to Ebb. Clear hawse. Distilling

C. D. Craig.
Naval Cadet U.S.N.

Examined and found to be correct.

C. S. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Plymouth Aores.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N. by E.	North	2			29.70	77	76	72		b.s.	Cirr	5	S
2	"			"	"	2			29.70	77	76	72		"	"	6	"
3	"			"	"	2			29.71	77	76	72		"	"	6	"
4	Slack			"	"	2			29.71	76	75	72		"	"	7	"
5	Flood			North	"	2			29.71	75	74	72		"	"	7	"
6	"			West	"	2			29.71	75	76	72		"	"	7	"
7	"			"	"	2			29.72	75	74	71		"	"	8	"
8	"			S.S.W.	"	2			29.74	76	75	72		"	"	8	"
9	"			"	"	1			29.76	77	76	73		"	"	8	"
10	"			S.W.	"	1			29.78	78	77	74		"	"	8	"
11	"			S.S.W.	"	1			29.78	79	78	75		"	"	8	"
Noon.	Slack			"	"	1			29.78	80	79	75		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water Distilled during the preceding 24 hours, 1480 "

Water remaining on hand fit for use at Noon, 2600 "

Coal consumed during the preceding 24 hours, 2 tons 60 lbs.

Coal remaining on hand at Noon, 66 " 2152 "

P. M.														
1	Ebb.	N. by W.	W.S.W.	2	29.75	80	80	75	b.s.	Cirr	9	S
2	"	"	"	2	29.74	80	80	76	"	"	9	"
3	"	N.W. by N.	"	3	29.74	81	80	76	"	"	9	"
4	Slack	W. by W.	"	3	29.74	82	81	77	"	"	6	"
5	Flood	"	West	2	29.76	83	82	78	"	"	8	"
6	"	W. by S.	"	2	29.77	83	82	78	"	"	8	"
7	"	S.W. by S.	"	2	29.77	83	82	78	"	"	7	"
8	"	S.W.	"	2	29.77	81	82	77	"	"	8	"
9	"	"	"	2	29.77	81	82	77	"	"	8	"
10	"	"	"	2	29.77	81	81	75	"	"	8	"
11	"	S.W. by W.	W.S.W.	2	29.78	81	80	75	"	"	8	"
Mid.	Slack	"	"	2	29.78	80	80	76	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday August 31st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Clear, pleasant weather. Light breezes from North. Riding to the ebb entire watch. Clear hawse.

B. H. Walling
Lieut U. S. N.

From 4 to 8 A.M.
Clear, cool & pleasant. Light breeze from North. Engaged in rattling down lower rigging & blacking down royals, t.g. & topmast rigging. Sounded bilges. Rec'd for issue to crew in Pay Dept. 106½ lbs. each fresh beef & vegetables & 85 lbs bread. At 5:30 swung to flood. Elbow in hawse, port chain on top. Distilling

H. J. Loomis
Ensign U. S. N.

From 8 A.M to Meridian
Clear & pleasant. Light airs from North. Engaged in rattling down fore & main rigging, straightening up mizzen rattlings & blacking down all the rigging. Carpenters gang making fore hatch ladder. The Comdg Officer of H. I. S. M Gunboat Chin Hai paid an official call to the ship. Comdg Officer paid an official call to H. B. M. S. "Rattler". Slack water at 11:00 & swung to Ebb. Clear hawse. Distilling

C. A. Craig
Naval Cadet U. S. N.

From Meridian to 4 P.M.
Clear, pleasant weather. Light to gentle breezes from W.S.W. Exercised Marines at great gun drill with 60 Pdr. Riding to the ebb tide. Clear hawse.

B. H. Walling
Lieut U. S. N.

From 4 to 8 P.M:
Clear & pleasant. Light breezes from West. Finished rattling down. Slack water at 5:00 & swung to flood. At 8:55 stopped distilling, the tanks being full. Water on hand 3000 Gallons. Elbow in hawse. Port chain on top.

C. A. Craig
Naval Cadet U. S. N.

From 8 P.M to Midnight:
Clear, pleasant weather. Light breezes from West & W.S.W. Hauled fires under distilling boilers. At 11:00 commenced swinging to ebb. Cross in hawse port chain on top.

B. H. Walling
Lieut. U. S. N.

Examined and found to be correct.

Ed. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N.N.W.	N.N.W.	2			29.78	79	80	75		b.c.	cir cum	8	S
2	"			North	"	1			29.78	79	78	74		b.	none	10	"
3	"			"	"	1			29.78	78	78	74		"	"	10	"
4	"			N. by E.	"	1			29.78	78	77	73		"	"	10	"
5	Slack			"	North	1			29.78	78	77	73		b.c.	cir cum.	7	"
6	Flood			E. by S.	"	1			29.80	78	77	73		"	"	7	"
7	"			"	"	1			29.82	78	77	74		"	"	6	"
8	"			"	"	1			29.82	78	77	74		"	"	8	"
9	Ebb			S.S.W.	"	1			29.82	78	79	75		"	"	8	"
10	"			S. by W.	West	1			29.83	80	79	76		"	"	8	"
11	"			S.S.W.	"	1			29.83	80	80	76		"	"	8	"
Noon.	"			"	"	1			29.83	80	80	75		"	"	8	-

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 370 gallons.

Water Distilled during the preceding 24 hours, 520 "

Water remaining on hand fit for use at Noon, 2750 "

Coal consumed during the preceding 24 hours, tons 1480 lbs.

Coal remaining on hand at Noon, 66 " 674 "

P. M.														
1	Slack	N. by S.	West	2	29.83	80	80	75	b.c.	Cir cum	8	S
2	Flood	N.N.W.	"	2	29.82	82	81	76	"	"	8	"
3	"	N. by W.	"	2	29.82	82	80	75	"	"	8	"
4	"	N.N.W.	"	2	29.82	83	81	76	"	"	8	"
5	"	North	"	2	29.80	83	82	76	"	"	8	"
6	"	"	"	2	29.80	82	81	76	"	"	8	"
7	Slack	N.N.W.	"	1	29.80	81	80	75	"	"	8	"
8	Ebb.	S. by W.	"	1	29.80	80	80	75	"	"	8	"
9	"	S.S.W.	"	1	29.81	80	80	75	"	"	8	"
10	"	"	"	1	29.80	80	80	75	"	"	8	"
11	Flood	S by W.	"	1	29.79	80	80	75	"	"	9	"
Mid.	"	"	"	1	29.79	79	79	76	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday September 1st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Cleared pleasant. Bright starlight. Light airs to light breeze from N.N.W. At 12:30 swung to ebb tide. Strength of tide at end of watch 0.4 Knot. Clear hawse.

C. F. Secretan
Lieut U.S.N.

From 4 to 8 A.M.
Cleared pleasant. Light airs from North. Read on board in Pay Dept. 83 lbs fresh bread, 103¾ lbs fresh beef and 113 lbs. fresh vegetables. Slack water at 6:00 and swung to flood. Clear hawse.

C. A. Craig
Naval Cadet U.S.N.

From 8 A.M. to Meridian:
Clear, pleasant weather. Light airs from North and West. At 9:40 aired bedding. Riding to flood tide entering watch. Clear hawse.

B. T. Walling
Lieut U.S.N.

From 4 P.M to Meridian:
Cleared and pleasant. Light breeze from West. At 2:00 swung to ebb. Cleared hawse and put on mooring swivels. Strength of tide at end of watch, 1 Knot.

C. F. Secretan
Lieut U.S.N.

From 4 P.M. to 8 P.M.
Clear pleasant weather. Light airs and breezes from West. Riding to ebb, current 1.5 Knots.

B. T. Walling
Lieut U.S.N.

From 8 P.M to Midnight:
Cleared pleasant. Light airs from West. At 11:00 swung to ebb.

C. F. Secretan
Lieut U.S.N.

Examined and found to be correct.

C. S. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d. Rate,

Moored in the harbor of Chemulpo Koreg.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships head.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S by W.	East	1			29.81	80	79	75		b.s.	cir cum	8	S
2	"			"	"	1			29.82	80	79	75		"	"	8	"
3	Ebb			North	"	1			29.82	80	79	75		"	"	7	"
4	"			N.N.E.	"	1			29.82	79	78	75		"	"	8	"
5	"			N.E.	"	2			29.82	78	78	74		"	"	6	"
6	"			"	S.E.	2			29.81	76	75	72		"	"	4	"
7	Flood.			East	"	2			29.82	76	75	72		"	"	4	"
8	"			S.E.	"	2			29.84	77	76	72		"	"	4	"
9	"			South	South	2			29.86	77	75	72		"	"	5	"
10	"			"	"	1			29.88	78	76	72		"	"	6	"
11	"			S by W.	"	1			29.88	80	78	74		"	"	6	"
Noon.	"			S.S.W.	S.S.W.	1			29.85	80	79	75		"	"	6	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 370 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2380 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 66 " 2744 "

P. M.																	
1	Flood	S.W by S.	W.S.W.	2			29.82	80	79	74	b.s.	cir cum.	7	S
2	"	W.S.W.	West.	2			29.82	80	79	73	"	"	7	"
3	Ebb.	W.N.W.	"	2			29.82	80	79	74	"	"	7	"
4	"	N. by W.	"	2			29.81	80	79	74	"	"	7	"
5	"	"	"	2			29.81	81	78	73	"	"	7	"
6	"	N.W. by W.	"	2			29.82	82	79	74	"	"	6	"
7	"	N.W.W	"	2			29.82	80	78	74	"	"	6	"
8	Flood.	W.S.W.	"	1			29.82	80	78	74	"	"	6	"
9	"	S.W. by S.	"	1			29.82	80	78	74	"	"	8	"
10	"	"	"	1			29.82	80	79	75	"	"	9	"
11	"	S.S.W.	S.W.	1			29.81	80	79	75	"	"	8	"
Mid.	"	"	"	1			29.80	79	78	75	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday September 2nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
clear and pleasant. Light airs from East.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.
clear and pleasant. Light breezes from East and S.E. At 5:00 tide current 1.3 knots. Read on board and issued to crew 83 lbs. fresh bread.

B. T. Wallace
Lieut. U.S.N.

From 8 A.M. to Meridian:
Fair and pleasant. Light airs and light breezes from South and S.S.W. At 9:30 the Comdg Officer inspected ship with crew at quarters. Then called all hands to ~~quarters~~ muster - read Articles for better government of the Navy and mustered crew. At end of watch, strength of flood 1 knots.

C. A. T. Jewell
Lieut U.S.N.

From Meridian to 4 P.M.
clear and pleasant. Light breeze from W. S. W. and West. At 1:00 p.m. H. J. M's ships, Fusos flying Rear Admirals flag, and Mirgashi came in and anchored. Sent an officer to offer usual courtesies to the Japanese Rear Admiral. The Russian and Japanese vessels in port saluted the Rear Admiral with 13 guns. Salute returned by Fusos. Officer from H. J. M ships Fusos returned boarding call. Coming to ebb at 3 o'clock.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.
clear and pleasant. Light breeze from West. Slack water at 7 o'clock.

C. A. T. Jewell
Lieut U.S.N.

From 8 P.M to Midnight:
clear and pleasant. Light airs from West and S.W.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

L. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.S.W.	S.W.	2			29.80	78	79	75		b.s.	cir cums	8	S
2	"			"	"	2			29.80	78	79	75		"	"	8	"
3	Ebb			S.W.	"	2			29.80	78	79	74		"	"	8	"
4	"			West	"	2			29.81	78	79	74		"	"	8	"
5	"			S by W.	S.S.W.	3-4			29.80	78	78	73		O.S.	"	0	"
6	"			"	"	3-4			29.81	78	77	74		"	"	0	"
7	"			S.W. by W.	"	4			29.82	78	76	73		"	"	0	"
8	Flood			S.S.W.	"	4			29.83	78	77	74		O.S.	"	0	"
9	"			"	"	3			29.84	78	77	74		O.C.N.	Cum nims.	0	"
10	"			"	"	3			29.85	78	77	74		O.C.P.	"	0	"
11	"			"	S.W by S	4			29.83	79	78	76		O.S.G.	"	0	"
Noon.	"			"	"	4			29.81	79	78	76		O.P. P.G.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1980 "

Coal consumed during the preceding 24 hours, tons 1480 lbs.

Coal remaining on hand at Noon, 65 " 1034 "

P. M.														
1	Flood	S. W by S.	S.W by S	4		29.80	79	78	76	O.S.G.N.	Cum Nims.	0	S.S
2	"	S. W by W.	W.N.W.	4		29.79	78	77	76	"	"	0	"
3	"	"	"	3		29.79	77	76	75	"	"	0	"
4	"	S.W.	"	3		29.79	77	76	75	"	"	0	"
5	"	"	"	3		29.79	77	76	75	O.S.N.	"	0	S
6	Ebb	North	"	3		29.80	78	76	75	"	"	0	"
7	"	N by W.	"	2		29.81	77	76	74	"	"	0	"
8	"	N.W.	N.N.W.	1		29.83	77	76	74	O.S.	"	0	"
9	Flood	W.N.W.	"	2		29.85	77	76	74	O.S.P.	"	0	"
10	"	S.W.	"	3		29.86	76	75	73	"	"	0	"
11	"	"	"	2		29.86	75	75	73	"	"	0	"
Mid.	"	S.S.W.	"	2		29.87	75	75	73	O.P.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday September 3d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear and pleasant. Light breeze from S. W. Swinging to ebb at end of watch.

T. J. Loomis
Ensign U. S. N.

From 4 to 8 A. M.
Overcast and cloudy. Last hour occasional drizzling rain. Gentle to moderate breeze from S. S. W. At 8:00 swung to flood. Chinese gunboat Shen Hai left the harbor. Recd on board in Pay Dept. 103¾ lbs fresh beef, 103¾ lbs. fresh vegetables and 83 lbs bread.

A. F. Leavitt
Lieut U. S. N.

From 8 A. M to Miridian:
Overcast and cloudy, with occasional heavy passing showers. Gentle to mod. breeze from S. S. W ½ W. by S. Recd a visit from a Japanese officer from the Fuso to thank the Comdg Officer for boarding call of yesterday. The Comdg Officer paid an official visit to the Japanese Rear Admiral. Examined dry gun-cotton and batteries and found them in good condition

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P. M.
Overcast and cloudy, with rain. Mod. breeze from S. W. by S. first hour, shifting and decreasing to gentle breeze from W. N. W. Swung to ebb at end of watch.

T. J. Loomis
Ensign U. S. N.

From 4 to 8 P. M.
Overcast with rain first three hours Light airs to gentle breeze from W. S. W. to W. N. W.

W. B. Hoggatt
Ensign U. S. N.

From 8 P. M. to Midnight:
Overcast and cloudy, with passing showers Light airs to gentle breeze from W. N. W. At 9:30 swung to flood.

T. J. Loomis
Ensign U. S. N.

Examined and found to be correct.

E. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shimonoseki, Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S. W by S.	S. W.	2-3			29.88	77	75	73		O.S.	Cum Nim	0	S
2	"			"	"	3			29.88	77	75	73		O.S.N.	"	0	"
3	"			"	"	2			29.86	77	75	73		O.S.	"	0	"
4	"			W. S. W.	"	2			29.84	77	75	73		"	"	0	"
5	Ebb.			North	West	2			29.84	76	76	73		"	"	0	"
6	"			"	"	1			29.86	76	76	73		"	"	0	"
7	"			"	"	1			29.90	76	75	70		"	"	0	"
8	"			"	"	1			29.91	76	74	69		"	"	0	"
9	"			N. W. by W.	N. W.	2			29.92	76	74	69		"	"	0	"
10	"			West	"	2			29.93	76	74	69		b.s.	Cir Cum	1	"
11	Flood.			W. S. W.	"	2			29.94	77	75	69		"	"	2	"
Noon.	"			S. W.	"	2			29.95	76	76	70		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 65 " 634 "

P. M.														
1	Flood	S. W.	N. W.	3	29.93	79	79	70	b.s.g.	Cir Cum	6	S
2	"	"	"	3	29.91	79	79	70	"	"	6	"
3	"	"	"	3	29.90	80	79	70	"	"	7	"
4	"	"	"	4	29.90	80	79	70	"	"	8	"
5	Ebb	N. N. W.	"	3	29.93	79	78	68	"	"	8	"
6	"	N. by W.	"	3	29.94	78	76	66	b.s.	"	7	"
7	"	North	North	2	29.95	76	74	66	"	"	8	"
8	"	"	"	2	29.98	76	74	66	"	"	8	"
9	"	N. N. by W.	"	2	29.99	75	73	65	"	"	8	"
10	Flood	S. W.	West	2	29.99	75	73	64	"	"	8	"
11	"	S. W by S.	"	3	29.99	74	73	67	"	"	7	"
Mid.	"	"	"	3	29.99	74	74	68	b.s.g.	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday September 4th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Overcast and cloudy. Raining second hour of watch. Light to gentle breezes from S. W. Flood tide, slack water at end of watch.

C. S. Craig
Naval Cadet U. S. N.

From 4 to 8 A. M.
Overcast and pleasant. Light airs and breezy from West. Reel for sine, in Pay Dept 83 lbs fresh bread.

W. B. Hoggatt
Ensign U. S. N.

From 8 A M to Meridian:
Cloudy and cool. Light breeze from N. W. At 9:30 beat to general quarters and exercised Divs. Tested Magazine flood-cocks. At 10:15 loosed sail to a bowline. By order of Comdg Officer, placed Louis Holt (S. Ord) and Ezer Lewis (S. H.) in double irons for five days for insolence to Engineer-of-watch. Rear Admiral Ito Comdg Japanese squadron, with his staff, paid an official visit to this ship and was received with the usual courtesies. The Comdg officer of H. I. J. M. S. "Muzasi" paid an official visit to this ship. Flood tide makes at 10:45. At 11:50 shortened sail.

T. J. Townsend
Ensign U. S. N.

From Meridian to 4 P. M.
Clear and pleasant. Gently to moderate breeze from N. W. blowing in moderate squalls at times. At 1:55 called all hands, furled and unbent all sail. The Comdg officer of H. I. J. M. S. Fu-Soo paid an official visit to this ship. Sailmaker's mate at work on main yard cover. Engaged in painting main tops and touching up spots about deck. Flood tide all watch.

C. S. Craig
Naval Cadet U. S. N.

From 4 to 8 P. M.
Clear, cool and pleasant. Gentle breeze from from N. W. first half, shifting to light breeze from North last half. Swung to ebb tide at 4:30

T. J. Townsend
Ensign U. S. N.

From 8 P. M to Midnight:
Cool, clear and pleasant. Light to gentle breezes from West, light squalls last hours. At 11:00 swung to the flood tide.

C. S. Craig
Naval Cadet U. S. N.

Examined and found to be correct.

C. S. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Pheunelpo, Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood.			S.S.W.	S.W.	2			29.80	78	79	75		b.s.	Cir Cumy	8	S
2	"			"	"	2			29.80	78	79	75		"	"	8	"
3	Ebb.			S.W.	S.S.W.	2			29.80	78	79	74		"	"	8	"
4	"			West	"	2			29.81	78	79	74		"	"	8	"
5	"			S. by W.	S.S.W.	3-4			29.80	78	78	73		O.S.	"	0	"
6	"			"	"	3-4			29.81	78	77	74		"	"	0	"
7	"			N.W. by N.	"	4			29.82	78	76	73		"	"	0	"
8	Flood			S.S.W.	"	4			29.83	78	77	74		"	"	0	"
9	"			"	"	3			29.84	78	77	74		O.S.W.	Cumy nimb.	0	"
10	"			"	"	3			29.85	78	77	74		O.S.b.	"	0	"
11	"			"	S.W. by S.	4			29.83	79	78	76		O.S.g.	"	0	"
Noon.	"			"	"	4			29.81	79	78	76		O.S.g.b.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 340 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1260 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 65 " 2214 "

P. M.												
1	Flood.	S.W. by S.	S.W. by S.	4	29.80	79	78	76	O.S.g.W.	Cumy nimb.	0	SL
2	"	S.W. by W.	W.N.W.	4	29.79	78	77	76	"	"	0	"
3	"	"	"	3	29.79	77	76	75	"	"	0	"
4	"	N.W.	"	3	29.79	77	76	75	"	"	0	"
5	"	North	"	3	29.79	77	76	75	O.S.W.	"	0	"
6	Ebb.	N. by W.	"	3	29.80	78	76	75	"	"	0	"
7	"	N.W.	"	2	29.81	77	76	74	"	"	0	"
8	"	W.S.W.	W.S.W.	1	29.83	77	76	74	O.S.	"	0	"
9	Flood	S.W.	"	2	29.85	77	76	74	O.S.b.	"	0	"
10	"	"	"	3	29.86	76	75	73	"	"	0	"
11	"	"	"	3	29.86	75	75	73	"	"	0	"
Mid.	"	S.S.W.	"	2	29.87	75	75	73	O.S.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy.

Wednesday September 5th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced until 4 A.M.

Fair, pleasant weather. Gentle to moderate breezes from S.W. to S.S.W. Riding to the flood. At 1:00 flood current 2.2 Knots.

R. F. Waring
Lieut U.S.N.

From 4 to 8 A.M.

Clear cool & pleasant. Gentle to light breeze from S.S.W. Riding to ebb. Received Pay. Dept. & issued to crew, 103¼ lbs each fresh beef & vegetables & 8½ lbs of fresh bread.

F. J. Swift
Surgn U.S.N.

From 8 A.M. to Meridian:

Clear & pleasant. Light to moderate breeze from S.S.W & S.W by S. At 8:45 exercised at fire-quarters. All divisions reported ready in 1 min. 45 sec. Hand force pumps in Engineers Dept. sailed. At 9:30 went to general quarters & exercised at great gun drill. Navigators Division, instruction at gatling gun. At 10:15 exercised 1st & 2nd cutters & whale boats crews at boats under sail. By order of Comdg Officer placed F. Ramirez ord. sea in double irons for 3 days, for using insulting language toward & making cowardly assault on Ships Corporal. Comdg Officer paid official call on all Japanese men-of-war. Riding to flood tide.

C. A. Craig
Naval Cadet U.S.N.

From Meridian to 4 P.M.

Fair pleasant weather. Light to moderate breezes from S.W. by S & W.N.W. Riding to the flood, current 1.8 Knots. Sended out monthly money. "Higo Maru" left the harbor.

R. F. Waring
Lieut U.S.N.

From 4 to 8 P.M.

Clear & pleasant. Gentle breezes from W.S.W. At 4:55 sent down top-gallant yards. Hoisted steam cutter. Riding to flood all watch.

C. A. Craig
Naval Cadet U.S.N.

From 8 P.M. to Midnight

Clear & pleasant. Light airs to gentle breezes from W.S.W. At 9:00 commenced swinging to flood & at 10:45 swung to flood.

R. F. Waring
Lieut U.S.N.

Examined and found to be correct.

D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shimonoseki, Japan.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.S.W.	N.E.	1			30.05	71	71	65		b.s.	Cir Cumy.	8	S
2	"			S. by W.	"	1			30.03	71	71	65		"	"	8	"
3	"			"	"	1			30.01	70	70	65		"	"	8	"
4	"			"	"	1			30.00	70	69	65		"	"	4	"
5	"			South	E.N.E.	1			29.99	69	69	65		"	"	3	"
6	Ebb			N.E.	"	1			29.98	69	68	64		"	"	2	"
7	"			N. by E.	"	1			29.99	69	68	64		o.s.	"	0	"
8	"			"	East	2			30.00	68	68	64		"	"	0	"
9	"			N.E. by N.	"	2			30.00	68	68	64		"	"	0	"
10	"			"	"	2			30.02	68	66	64		"	"	0	"
11	Flood			S by E.	"	1			30.03	68	68	64		"	"	0	"
Noon.	"			"	South.	1			30.03	70	69	64		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 340 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 920 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 64 " 2074 "

P. M.													
1	Flood	S.S.W.	South	1	30.00	71	70	64	o.s.	Cir Cumy	0	S
2	"	"	S.E.	1	29.98	71	70	65	o.c.d.	Nimb.	0	"
3	"	"	"	1	29.96	71	70	65	"	"	0	"
4	"	S. by W.	East	1	29.93	71	76	65	"	"	0	"
5	"	S by E.	"	1	29.91	71	70	65	o.s.	"	0	"
6	Ebb	E.S.E.	S.E.	2	29.90	70	69	64	"	"	0	"
7	"	North.	"	1	29.90	71	70	66	"	"	0	"
8	"	"	"	1	29.90	71	70	66	"	"	0	"
9	"	N.E. by E.	"	2	29.90	70	70	66	"	"	0	"
10	"	N.E.	"	2	29.90	70	69	66	"	"	0	"
11	"	S.W.	W.N.W.	2	29.90	70	69	66	"	"	0	"
Mid.	Flood	S.S.W.	"	2	29.90	70	69	66	o.cr.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday September 6th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 P.M.
Clear & pleasant until last hour, when cloudy. Light airs from N.E. Flood tide. Strength of tide at end of watch 1.6 knots.

C. A. Secretan
Lieut U. S. N.

From 4 to 8 P.M.
Cloudy & cool. Overcast latter part of watch. Light airs to light breezes from E. N. E. & East. At 7:30 crossed topgallant & royal yards. Recd on board in Pay Department 103¾ lbs. of fresh beef, 103¾ lbs. vegetables, & 83 lbs. fresh bread. Slack water at 6:00 & swung to the ebb tide.

C. S. Orgies
Naval Cadet U.S.N.

From 8 P.M. to Meridian:
At 9:37 beat to general quarters. All Divisions ready in 2m 45 secs. Secured in 5m 00. Pivoted VIII in. Rifle in 1 m. 10 sec, 1 min. & 1 min. 5 secs. At 11:30 swung to flood

B. F. Waring
Lieut U.S.N.

From Meridian to 4 P.M.
Overcast & cloudy. Light drizzling rain last three hours, light airs from South to East. Flood tide; Strength at 3:00 1.6 knots. At 1:00 sent down topgt & royal yards & masts. Scraped topgt masts & sent up topgt masts & yards Carpenters gang at work on 1st cutter.

C. A. Secretan
Lieut U. S. N.

From 4 to 8 P.M.
Overcast. Light airs from East. Light airs & breezes from S.E. At 5:00 commenced swinging & at 6:00 swung to Ebb. Two Japanese Men-of-war Cadets in & anchored.

B. F. Waring
Lieut U. S. N.

From 8 P.M. to Midnight:
Overcast & cloudy. End of last hour raining. First half of watch, light breeze from S.E. last half from W.N.W. At 11:00 swung to flood. At 10:00 began running distilled water into tanks.

C. A. Secretan
Lieut U.S.N.

Examined and found to be correct.

C. K. Galloway
Lieut. and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo, Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S. S. W.	West	3			29.89	70	70	67		O. C. N.	cumb	0	S
2	"			S. W by S.	"	3			29.88	70	69	66		"	"	0	"
3	"			S. S. W.	"	3			29.85	69	69	66		"	"	0	"
4	"			"	"	3			29.82	69	69	66		"	"	0	"
5	"			"	S. W.	3			29.82	70	69	67		"	"	0	"
6	"			S. W by S.	"	3-4			29.82	70	69	67		"	"	0	"
7	Ebb.			North	"	3-4			29.83	70	69	67		"	"	0	"
8	"			"	"	3-4			29.84	70	68	67		O. C.	"	0	"
9	"			N. by N.	West	2			29.85	70	69	67		"	cumb nimb.	0	"
10	"			N. by E.	N. W.	1			29.86	71	69	67		B. C.	"	1	"
11	"			N. by W.	"	1			29.86	71	70	68		"	"	1	"
Noon.	Flood.			S. W.	"	2			29.85	71	71	68		"	"	1	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 340 gallons.

Water Distilled during the preceding 24 hours, 1070 "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 1 tons 1580 lbs.

Coal remaining on hand at Noon, 63 " 1794 "

P. M.																	
1	Flood		S. S. W.	N. N. W.	3			29.88	73	71	67		B. C.	cumb nimb.	1	S
2	"		S. W by S.	"	3			29.88	73	71	67		O. C.	"	0	"
3	"		"	"	3			29.86	73	72	67		B. C.	"	1	"
4	"		S. S. W.	"	3			29.84	74	74	66		"	"	4	"
5	"		"	"	3			29.84	74	74	66		"	"	4	"
6	"		"	"	3-4			29.84	73	74	68		"	"	4	"
7	Ebb.		North	"	3			29.85	73	73	67		"	"	4	"
8	"		"	"	3			29.86	71	73	68		"	"	4	"
9	"		"	N. W.	3			29.90	71	70	64		B. C. S.	cirr cums.	9	"
10	"		"	"	3			29.92	70	69	64		"	"	9	"
11	"		N. N. W.	N. N. W.	2			29.93	69	68	63		"	"	9	"
Mid.	Flood.		N. W.	"	3			29.95	69	68	64		"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday September 7th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Overcast and raining. Gentle breeze from West. Distilling

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.
Overcast, rainy weather. Gentle to moderate breezes from S.W. Recd on board and issued to crew 83 lbs. fresh bread.

From 8 A. M to Meridian
Lieut U. S. N.
Cloudy, Cool. Light airs from West and N. W. At 9:30 crossed royal yards. At 9:40 inspected at quarters. Exercised 1st and 2nd and 3d Divs. at great guns. Powder Div. stations. At 10:00 exercised at fire quarters. Recd visit from Japanese Consul. At 11:00 swung to flood. Distilling.

C. A. F. Leetch
From Meridian to 4 P. M.
Lieut U. S. N.
Cloudy and pleasant. Gentle breeze from W. N. W. The Tsurugo Maru came in at 2:00 and was boarded by an officer. The Comdg Officer of H. I. J. M. S. Tsukushi paid an official visit to the Commander. Strength of flood at 3:30, 2 knots. Distilling
Sailing Launch with a party of officers and men in charge of Lt Walling left the ships on three days leave of absence

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.
Generally cloudy. Pleasant. Gentle to moderate breezes from W. N. W. At 4:20 strength of flood 1.9 knots. At 7:00 swung to ebb. Distilling

C. A. F. Leetch
From 8 P. M to Midnight:
Lieut U. S. N.
Clear, bright and cool. Light to gentle breezes from N. W and W. N. W. Swinging to flood at end of watch. Distilling

W. B. Hoggatt
Ensign U. S. N

Examined and found to be correct.

C. O. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shimonoseki Strait

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
A. M.																	
1	Flood.			S. S. W.	N.N.W.	2			29.98	70	69	66		b. s.	Cir cums	8	S
2	"			S. W. by S.	"	2			29.98	70	69	66		"	"	8	"
3	"			"	S. W.	2			29.97	70	68	66		"	"	9	"
4	"			"	"	2			29.96	69	68	65		"	"	9	"
5	"			S. S. W.	N. E.	2			29.96	68	66	63		"	"	8	"
6	"			S. by W.	"	1			29.97	67	67	63		"	"	8	"
7	Ebb.			E. N. E.	"	1			29.97	67	67	63		"	"	8	"
8	"			N. by E.	"	2			29.99	67	65	62		"	"	8	"
9	"			N. N. E.	North	2			30.00	67	66	61		"	"	8	"
10	"			"	"	2			30.01	68	67	62		"	"	8	"
11	"			N. by E.	"	2			30.02	70	68	64		"	"	8	"
Noon.	"			N. N. W.	N. by W.	2			30.03	71	70	64		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 340 gallons.

Water Distilled during the preceding 24 hours, 1740 "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, 1 tons 1040 lbs.

Coal remaining on hand at Noon, 61 " 1694 "

P. M.														
1	Flood	S. S. W.	N. W.	2	30.03	72	72	66	b. s	Cir cums.	8	S
2	"	"	"	2	30.03	74	74	68	"	"	8	"
3	"	"	"	2	30.01	75	76	68	"	"	8	"
4	"	"	"	2	30.01	75	76	69	"	"	8	"
5	"	"	"	2	30.00	76	77	69	"	"	8	"
6	"	"	"	2	30.00	76	76	69	"	"	9	"
7	"	S. W by W.	"	2	30.00	75	76	69	"	"	9	"
8	Ebb.	North	"	2	30.01	75	74	69	"	"	9	"
9	"	"	"	2	30.02	75	74	69	"	"	9	"
10	"	N. N. E.	"	1	30.03	74	73	69	"	"	9	"
11	"	"	North	1	30.04	73	72	68	"	"	9	"
Mid.	"	"	"	1	30.05	72	72	67	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday September 8th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced & ends 4 A.M.
Clear cool & pleasant. Light breeze from N.N.W & shifting to S.W last half. Bright starlight. Flood tide. Distilling

T. J. Loomis
Ensign U.S.N.

From 4 to 8 A.M.
Clear & pleasant. Light airs to light breeze from N.E. At 4:00 strength of flood 2 knots. At 7:00 swung to ebb. Recd & issued to crew 103¾ lbs. fresh beef, 103¾ lbs. fresh vegetables & 83 lbs. fresh bread. Distilling

A. F. Fechteler
Lieut U.S.N.

From 8 A.M to Meridian:
Clear & pleasant. Light breeze from North & N. by W. At 9:15 stopped distiller & allowed fires to die out. By order of the Comdg. Officer, released F. Ramirez (O.S) L. Holk (C.H.) & E. Lewis (C.H.) from confinement, their terms having expired. Recd an official visit from the Comdg Officer of H.B.M.S. "Rattler" At 10:30 the Rattler left the harbor. The Comdg Officer paid official visits to the Japanese men-of-war Tsukushi & Kaimon.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.
Clear & pleasant. Light breeze from N.W. At 12:30 swung to flood. Strength of tide at 2:30, 1.5 knots

T. J. Loomis
Ensign U.S.N.

From 4 to 8 P.M.
Clear bright & pleasant. Light breeze from N.W. At 7:30 swung to ebb, strength of flood at 5:30, 1.9 knots.

W. B. Hoggatt
Ensign U.S.N.

From 8 P.M to Midnight:
Clear, cool & pleasant. Light airs from N.W & North. Riding to ebb.

T. J. Loomis
Ensign U.S.N.

Examined and found to be correct.

Ch. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shumulpo Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S by W.	North.	1			30.05	72	70	66		b. c.	cir cum	9	8
2	"			"	"	1			30.05	72	71	67		"	"	9	"
3	"			S. S W.	N. N. W.	2			30.05	71	71	68		"	"	9	"
4	"			"	"	1			30.03	71	70	67		"	"	9	"
5	"			S by W.	"	1			30.03	70	70	67		"	"	7	"
6	"			"	East	1			30.04	70	70	67		"	"	7	"
7	"			South	"	1			30.04	70	70	67		"	"	8	"
8	Ebb.			E. N. E.	"	1			30.06	71	70	67		"	"	8	"
9	"			N. by E.	N N W.	1			30.08	70	70	67		"	"	8	"
10	"			N by W.	"	1			30.10	72	71	68		"	"	8	"
11	"			N. N. E.	"	1			30.09	72	71	68		"	"	8	"
Noon.	"			North.	"	1			30.09	72	71	68		"	"	8	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 340 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2660 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 61 " 1294 "

P. M.														
1	Ebb	S. S. W.	S. S. W.	2	30.08	71	74	68		b. c.	cir cum.	8	8
2	Flood	"	"	2	30.07	72	75	68		"	"	6	"
3	"	"	"	2	30.05	72	75	68		"	"	4	"
4	"	"	"	2	30.03	72	76	70		"	"	4	"
5	"	"	N. N. W.	2	30.00	76	76	70		"	"	3	"
6	"	"	"	3	29.98	75	75	70		"	"	3	"
7	"	S. W by S.	"	3	29.97	75	75	70		"	"	2	"
8	Ebb	S. W.	"	2	29.99	75	75	72	75	"	"	2	"
9	"	S. by E.	"	2	29.99	74	74	71		"	"	2	"
10	"	"	"	2	30.01	74	74	76		"	"	2	"
11	"	"	"	2	30.01	74	74	70		"	"	3	"
Mid.	"	"	"	2	30.00	73	73	70		"	"	3	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday September 9th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commanas and until 4 A.M.
Clear, cool and pleasant. Light airs and breeze from North and N.N.W. Slack water at 12:30 and swung to the flood tide.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 A.M.
Clear and pleasant. Light airs from N.N.W. and East. Recd for issue to crew 103¾ lbs each of fresh beef and vegetables and 83 lbs fresh bread. Began swinging to ebb at 7:15

W. B. Hoggatt
Ensign U.S.N.

From 8 A.M to Meridian:
Clear Warm and pleasant. Light airs from N.N.W. Riding to ebb tide. A boarding officer from H.I.J.M.S Kaimon came on board to present the respects of his Comdg Officer. At 9:30 the Comdg Officer inspected the divisions at quarters.

J. J. Hoggins
Ensign U.S.N.

From Meridian to 4 P.M.
Fair and pleasant. Light breeze from N.N.W. Sailing launch with picnic party returned. Hoisted sailing launch. Slack water at 1:00 and swung to flood. Drift of tide at end of watch 1.6 Knots.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 P.M.
Fair, decreasing to cloudy weather. Light to gentle breeze from N.N.W. Riding to flood tide until end of watch when swinging to ebb. Strength of flood at 4:30 - 2.0 Knots. English Consul General Mr Ford and Chinese Chief Commissioner of Customs for Korea, Mr. Merrill called officially.

J. J. Hoggins
Ensign U.S.N.

From 8 P.M. to Midnight:
Cloudy and pleasant. Light breeze from N.N.W. Slack water at 8:00 and swung to ebb.

C. S. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

T. K. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Phemulpo, Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N by E	N.N.E.	2			30.01	73	73	68		b.s.	cir cums.	3	S
2	Flood			S.W. by S.	"	3			30.02	73	74	69		"	"	6	"
3	"			S. by W.	"	1			30.02	73	74	69		"	"	6	"
4	"			S.S.W.	"	2			30.03	72	74	69		"	"	6	"
5	"			"	N by E.	3			30.03	72	73	69		b.s.g.	"	4	"
6	"			"	"	3			30.03	71	71	68		"	"	6	"
7	"			S. by W.	N.N.E.	3			30.04	72	71	67		"	"	5	"
8	Ebb.			S.E.	"	3			30.04	74	71	67		"	"	6	"
9	"			N. by E.	N.E.	3			30.09	75	73	66		b.s.	"	7	"
10	"			"	"	3			30.10	75	73	66		"	"	7	"
11	"			North	"	2			30.10	77	75	67		"	"	8	"
Noon.	"			N.N.E.	"	2			30.10	78	77	68		b.	Clear	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 340 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2320 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 61 " 894 "

P. M.													
1	Ebb.	N by E	N. E.	3-4	30.09	78	79	68	b.s.	cir cums	9	S
2	Flood	S. by E.	"	3-4	30.06	80	80	70	"	"	9	"
3	"	South	"	3-4	30.04	82	81	71	"	"	9	"
4	"	"	"	3-4	30.04	82	80	70	"	"	9	"
5	"	"	"	3-4	30.04	82	79	70	"	"	9	"
6	"	"	"	3	30.03	81	78	69	"	"	9	"
7	"	S. by E.	E. N. E.	3-4	30.02	81	77	70	"	"	9	"
8	"	"	"	3	30.02	82	77	70	"	"	8	"
9	Ebb	N.N.E.	N. E.	3	30.04	75	75	68	"	"	8	"
10	"	"	"	3-4	30.02	74	74	68	"	"	8	"
11	"	"	"	3-4	30.01	74	74	68	"	"	9	"
Mid.	"	"	"	3-4	30.01	72	72	65	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday September 10th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Fair and pleasant weather. Light airs to gentle breezes from N. N. E. At 12:20 commenced swinging and at 1:20 swung to flood. At 4: tidal current 1.9 knots.

B. T. Walling
Lieut U. S. N.

From 4 to 8 A. M.

Fair, cool and pleasant. Gentle breeze from N. by E and N. N. E.. Squally. Engaged in painting spars. Riding to flood tide. Recd in Pay. Dept. for issue to crew 83 lbs fresh bread. A Japanese gun-boat left the harbor.

T. J. Brodrick
Ensign U. S. N.

From 8 A. M to Meridian:

Clear and pleasant. Light to gentle breezes from N. E. At 9:30 went to general quarters. All divisions ready in 2 m. 30 secs. Inspected dry gun-cotton and found it in good condition. Examined Magazine and shell-rooms flood cocks and found them in order. Engaged in painting spars and scraping poop and forecastle rails and awning stanchions. Unshipped the wheel and its stanchions for scraping and varnishing. Slack water at 8:00 and swung to ebb at 8:30.

C. A. Craig
Naval Cadet U. S. N.

From Meridian to 4 P. M.

Clear, pleasant weather. Gentle to moderate breezes from N. E. At 12:30 commenced swinging and at 1:30 swung to flood At 4: flood current 1.6 knots. Engaged painting spars.

B. T. Walling
Lieut U. S. N.

From 4 to 8 P. M.

Clear and pleasant. Gentle to moderate breezes from N. E and E. N. E. Finished painting the spars except the bowsprit and dolphin striker. Flood tide. Drift of tide at end of watch 0.9 knots.

C. A. Craig
Naval Cadet U. S. N.

From 8 P. M to Midnight:

Clear. Pleasant weather. Gentle to moderate breezes from N. E. At 8:30 commenced swinging and at 9:10 swung to ebb. Ebb current at 11:30 2.5 knots.

B. T. Walling
Lieut U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Phenneps Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Slups Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N. by E.	N. by E.	2			30.02	68	67	63		b. s.	cir cum.	9	8
2				North	"	2			29.99	68	66	63		"	"	9	"
3	Flood.			South	"	2			29.98	67	66	62		"	"	9	"
4	"			S. by W.	"	2			29.97	67	66	62		"	"	9	"
5	"			"	"	2			29.99	67	66	62		"	"	9	"
6	"			S. S. W.	"	2			29.99	67	66	62		"	"	8	"
7	"			"	"	2			29.99	68	66	62		"	"	8	"
8	"			"	"	2			29.99	68	66	62		"	"	8	"
9	Ebb			N. by E.	N. N. E.	2			29.97	69	67	63		"	"	8	"
10	"			"	"	2			29.95	70	69	66		"	"	8	"
11	"			"	North	2			29.93	72	72	65		"	"	6	"
Noon.	"			North.	"	2			29.93	73	72	65		"	"	5	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 61 " 494 "

P. M.														
1	Ebb.	North	North	3	29.92	74	73	66	b. s.	cir cum	6	S
2	Flood.	N. W. by W.	"	3	29.90	75	74	67	"	"	7	"
3	"	S. W. by S.	"	3	29.89	76	75	68	"	"	8	"
4	"	S. S. W.	"	3	29.88	76	75	68	"	"	8	"
5	"	S. by W.	"	3	29.86	77	76	69	"	"	7	"
6	"	"	N. E.	2	29.84	75	75	68	"	"	7	"
7	"	"	"	2	29.84	75	75	68	"	"	7	"
8	"	S. S. W.	"	2	29.82	75	76	70	"	"	7	"
9	"	"	N. N. E.	2	29.82	75	75	70	"	"	8	"
10	Ebb.	North	"	2	29.82	75	74	69	"	"	9	"
11	"	"	"	2-3	29.81	74	73	67	"	"	8	"
Mid.	"	N. by E.	North	2-3	29.80	73	72	67	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday September 11th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Clear & pleasant. Light breezes from N. by E. At 2:30 swung to flood. Strength of flood at end of watch 1.4 Knots.

C. F. Jewell
Lieut U. S. N.

From 4 to 8 A. M.
Clear & pleasant. Light breezes from N. by E. Rec'd on board in Pay Dept, for issue to the crew, 103¾ lbs fresh beef, 103¾ lbs vegtables & 83 lbs fresh bread. Flood tide.

C. A. Craig
Naval Cadet U. S. N.

From 8 A. M. to Meridian:
Clear, pleasant weather. Light breezes from North & N. N. E. At 9:30 inspected at quarters. At 9:45 sounded Assembly & drilled battalion at marching & manual of arms. Finished painting spars. Comdg Officer of "Kaimon Kan" paid an official visit to the ship. Japanese Corvettes "Musashi Kan" & "Yukuishi Kan" left the harbor for Fusan. By order of Comdg Officer confined John W. Auld (Lds) in double irons for five (5) days for profanity. At 8:30 commences swinging & at 9:00 swung to ebb. Ebb current at 12:00 - 0.9 Knots. Received twenty four (24) feet Rubber Hose.

B. H. Darling
Lieut U. S. N.

From Meridian to 4 P. M.
Clear & pleasant. Gentle breeze from North. At 1:50 began & at 2:45 stopped swinging to flood. Engaged in painting poop & water-ways. Carpenters gang engaged on new rudder for 1st Cutter.

C. A. Jewell
Lieut U. S. N.

From 4 to 8 P. M.
Clear pleasant weather. Riding to the flood tide. At 7:45 commenced swinging to ebb. At 4:36 flood current 2.0 knots.

B. H. Darling
Lieut U. S. N.

From 8 P. M to Midnight:
Clear & pleasant. Light to gentle breeze from N. & N. N. E. At 10:00 swung to ebb.

C. A. Jewell
Lieut U. S. N.

Examined and found to be correct.

C. O. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 6d Rate,

Moored in the harbor of Shemuelpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			North	North	3			29.80	73	71	66		b.s.	cir cum.	8	S
2	"			"	"	2			29.80	73	71	66		"	"	8	"
3	Flood.			S. S. W.	"	2			29.80	73	72	67		"	"	7	"
4	"			"	"	2			29.80	72	72	67		"	"	7	"
5	"			"	"	1			29.79	70	71	67		"	"	8	"
6	"			"	"	1			29.79	70	71	67		"	"	8	"
7	"			"	S. S. W.	1			29.79	72	71	67		"	"	8	"
8	"			"	"	1			29.80	72	71	68		"	"	8	"
9	Ebb.			S. W by S.	"	3			29.80	73	72	68		"	"	8	"
10	"			S. by W.	"	3			29.81	73	72	68		"	"	9	"
11	"			South.	"	3-4			29.81	74	73	67		"	"	9	"
Noon.	"			"	S. W.	4			29.80	75	74	66		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1700 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 61 " 94 "

P. M.														
1	Ebb.	S. S. W.	S. W.	5	29.78	76	75	66	b.s.	cir cums.	8	S
2	"	W. S. W.	"	5	29.77	76	75	67	"	"	8	"
3	Flood.	W. by S.	W. S. W.	5	29.76	76	75	67	"	"	8	"
4	"	S. W.	"	5	29.76	76	74	67	"	"	9	"
5	"	"	S. W.	5	29.77	76	74	67	"	"	8	"
6	"	"	"	5-6	29.79	74	73	65	"	"	7	"
7	"	"	"	5-6	29.79	74	73	65	"	"	7	"
8	"	W by S.	"	5-6	29.79	72	72	63	"	"	7	"
9	"	W by S	"	5-7	29.79	71	70	61	b.s.g.l.	"	8	"
10	"	S. S. W.	S. S. W.	4-6	29.80	69	69	61	"	"	9	"
11	Ebb.	South.	"	4-5	29.81	68	69	61	"	"	9	"
Mid.	"	"	"	4-6	29.83	67	67	60	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday September 12th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 P. M.
Clear, bright and warm. Light to gentle breeze from North.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.
Clear, pleasant weather. Light airs from North and N. N. W. Read on board and issued to crew 103¾ lbs fresh meat and 88 lbs. fresh bread. Riding to the flood. Flood current at 5:00 1.9 knots.

B. H. Wilding
Lieut U. S. N.

From 8 P. M. to Meridian:
Clear and pleasant. Gentle to moderate breeze from N. W. and N. N. W. Ebb tide - At 9:30 inspected at quarters. Armed and equipped boats for distant service. Sailing launch exercised under oars firing howitzer with blank charges. Expended 6 - 10 oz charges and 10 metallic primers. Exercised 1st and 2nd cutters and whaleboat in fleet tactics under sail.

A. F. Fechteler
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and pleasant. Stiff breeze from N. W. to W. N. W. Flood tide made at 2:30. Issued small stores to crew. Carried away 2nd cutters foremast while boat was returning from shore under sail.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Stiff to fresh breeze from N. W. Flood tide. Strength of flood at 6:15, 1.8 knots. Bent sheet chain. Russian man-of-war ~~corvette~~ Vitiaz came in. Sent an officer to extend the usual civility. By order of Commander, placed J. Evans (cox'n) John Patton (seaman) and J. A. Richards (O's) under sentry's charge to await further action for being under the influence of liquor.

A. F. Fechteler
Lieut U. S. N.

From 8 P. M to Midnight:
Clear, cool and equally. Moderate to very fresh breeze from N. W to N. N. W. Unbent port chain from mooring swivel and veered to 45 fms. at hawse pipe on starboard chain. Swung to Ebb at 10:30

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Koreq.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N. by E.	North	4			29.83	66	64	59		b. c. g. h.	Cir Cumu	8	8
2	"			North	"	3			29.83	65	64	59		"	"	9	"
3	"			"	"	2			29.84	64	63	59		b.	None	10	"
4	"			N. N. W.	"	3			29.84	64	62	58		"	"	10	"
5	Flood.			S. W.	"	4			29.85	65	62	59		"	"	10	"
6	"			"	"	3			29.87	66	64	60		"	"	10	"
7	"			S. by W.	"	2			29.89	66	65	60		"	"	10	"
8	"			"	N. E.	2			29.89	66	65	60		"	"	10	"
9	"			"	"	2			29.89	67	66	61		b. s.	Cir Cumu Strat	9	"
10	"			W. by S.	"	2			29.90	68	66	63		"	"	9	"
11	"			N. by W.	"	2			29.90	70	69	63		"	"	9	"
Noon.	Ebb.			North	"	2			29.90	70	69	63		"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 280 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1420 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 60 " 1936 "

P. M.														
1	Ebb.	North	West	2	29.90	70	69	66	b. s.	Cir Strat	9	8
2	"	"	"	2	29.90	71	70	64	"	"	8	"
3	"	N. W.	"	2	29.90	72	70	65	"	"	7	"
4	Flood.	W. S. W.	"	2	29.90	71	71	65	"	"	6	"
5	"	S. S. W.	"	2	29.90	72	71	64	"	"	7	"
6	"	"	"	2	29.90	71	71	66	"	"	7	"
7	"	"	"	2	29.89	71	71	65	"	"	7	"
8	"	"	S. S. W.	2	29.89	71	71	66	"	"	8	"
9	"	"	"	1	29.89	70	70	65	"	"	8	"
10	"	S by W.	"	1	29.88	69	69	64	"	"	8	"
11	Ebb	W. S. W.	"	1	29.89	69	70	65	"	"	8	"
Mid.	"	N. N. E.	"	1	29.90	68	69	66	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday September 13th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Clear & pleasant. Lighting to & first two hours. Mod. decreasing to light breeze from North. Squally. Swinging to flood at end of watch.

F. J. Soomis
Ensign U.S.N.

From 4 to 8 A.M.
Clear & pleasant. Moderate breeze from North, moderating & hauling to N.E. by end of watch. Flood tide. Strength of flood at end of watch 1.4 knots. Rec'd & issued to crew, 83 lbs fresh bread.

A. F. Fechteler
Lieut U.S.N.

From 8 A.M to Meridian:
Clear & pleasant. Light breeze from N.E. At 9:27 mustered crew at quarters, they exercised 1st 2nd & 3d Divs. at great guns, Powder Division, stations & Engineers Div. with Rifles. At 11 o'clock the Japanese men-of-war Pusoo & Kaimon left the harbor. Russian naval officer came to thank the Commander for the boarding call of yesterday. Ebb made at 11:00. By order of the Pond's Officer, released J. Evans (Sox) J. Patton (Sea) & J. G. Richards (Sea) from sentry's charge, they being sober.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.
Clear, cool & pleasant. Light breeze from West. Riding to ebb until end of watch, when swung to flood. Drilled outward squads. Hove in to 30 fms. on stbd chain, shackled port chain to mooring swivel, unshackled stbd chain from mooring swivel, & bent it to end of fifteen fms sheet chain on sheet anchor. Engaged in painting poop-deck, sailing launch, & stbd ladders, pendants & grab-ropes. Sailmaker's Mate making cover for sailing launch. Making new jib-net. At 1:45 started fires in boilers Nos 2 & 4 for condensing.

F. J. Soomis
Ensign U.S.N.

From 4 to 8 P.M.
Clear cool & pleasant. Light airs & breeze from West.

W. B. Hoggatt
Ensign U.S.N.

From 8 P.M to Midnight:
Clear & pleasant. Light airs from S.S.W. At 10:30 swung to ebb. Moon set at 11:20: Distilling

F. J. Soomis
Ensign U.S.N.

Examined and found to be correct.

R. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shimonoseki Japan

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N.N.W.	N.E.	1			29.97	68	68	64		b.s.	cir. cum.	8	S
2	"			"	"	1			29.97	68	67	64		"	"	8	"
3	"			N.E.by N.	East	2			29.97	67	68	64		"	"	9	"
4	"			"	"	2			29.92	67	67	63		"	"	9	"
5	Flood.			S.S.E.	E.S.E.	2			29.92	66	65	62		"	"	9	"
6	"			South	"	2			29.94	67	64	62		"	"	9	"
7	"			"	"	2			29.95	67	65	62		"	"	8	"
8	"			"	"	2			29.95	67	66	63		"	"	7	"
9	"			"	"	2			29.98	70	68	65		"	Cum.	6	"
10	"			"	South	2			30.00	70	69	65		"	"	6	"
11	"			S.by E.	"	2			30.00	70	69	65		"	"	3	"
Noon.	Ebb.			East.	"	2			30.00	71	70	66		"	"	4	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water ~~expended~~ during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1080 "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the ~~preceding~~ 24 hours, 2 tons 60 lbs.

Coal remaining on hand at Noon, 58 " 1874 "

P. M.													
1	Ebb	N.by W.	South	2	29.95	71	71	67	b.s.	cir cum	6	S
2	"	North	"	2	29.97	71	71	67	"	"	6	"
3	"	N.by E.	W.N.W.	2	29.97	72	71	67	"	"	6	"
4	Flood	N.N.W. by W.	"	2	29.97	72	71	67	"	"	4	"
5	"	S.W.	"	2	29.97	71	70	66	"	"	4	"
6	"	S.S.W.	"	2	29.96	71	69	65	O.S.	"	4	"
7	"	"	"	2	29.94	70	70	65	"	"	0	"
8	"	"	"	2	29.98	70	71	66	"	"	0	"
9	"	"	S.W.	2	29.98	70	70	65	"	"	0	"
10	"	"	"	2	29.98	70	70	65	"	"	0	"
11	"	S.by W.	"	2	29.98	70	70	65	"	"	0	"
Mid.	Ebb.	South.	"	2	29.99	70	70	65	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday September 14th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced & until 4 A.M.
Clear & pleasant. Light airs to light breezes from S.E. & East. Ebb tide. Slack water at end of watch. Distilling

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 A.M.
Clear & pleasant. Light breeze from E.S.E. to S.E. Reid & issued for crew 10 3/4 lbs. each of fresh beef & vegetables & 80 lbs. of fresh bread. Strength of flood at 7:45, 1.7 knots. Distilling. Cleaned bilges.

W. B. Hoggatt
Ensign U.S.N.

From 8 A.M to Meridian:
Fair & pleasant. Light breeze from South Riding to flood until end of watch, when swung to ebb. At 9:15 went to fire-quarters; all Divs ready in 50 secs. secured in 1 min. 30 sec. Afterwards exercised Divs. as follows: 1st & 2nd Divs. gunnery instructions Nav. & 3d Divs. rifles, & Powder Div., stations. Distilling. Exercised torpedo Div. at stations.

F. J. Forms
Ensign U.S.N.

From Meridian to 4 P.M.:
Fair & pleasant. Light breezes from South & W.S.W. Hoisted out steam cutter & rigged her for torpedo exercise. Riding to the ebb tide, slackwater at 4 P.M. Distilling

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 P.M.:
Fair, decreasing to cloudy weather. Light breezes from W.N.W. Riding to flood tide. Fired an exercise torpedo from steam-cutter & a service torpedo suspended from a barrel as a floating torpedo. Found arms of galvanized iron boat-fittings too weak & carried away the worm shaft on stbd. side. Distilling

F. J. Forms
Ensign U.S.N.

From 8 P.M to Midnight:
Overcast & cloudy. Light breeze from S.W. At 10:50 stopped distilling, the tanks being full, & hauled fires in boilers Nos. 2 & 4 Ebbed tide.

C. S. Craig.
Naval Cadet U.S.N.

Examined and found to be correct.

E. K. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head.													
A. M.																	
1	Ebb.			E.N.E.	S.W.	1			29.97	69	68	65		b.s.	Cir Cums.	3	S.
2	"			N.N.E.	N.E.	1			29.97	69	68	64		"	"	3	"
3	"			"	"	1			29.95	68	67	64		"	"	3	"
4	"			"	"	1			29.95	68	67	64		"	"	4	"
5	Flood.			N E by E.	"	1			29.96	68	67	64		"	"	7	"
6	"			S by E.	"	1			29.98	69	66	64		"	"	5	"
7	"			South.	East	2			29.99	69	65	63		"	"	7	"
8	"			"	"	2			30.00	70	67	64		"	"	6	"
9	"			"	S.E.	2			30.00	71	69	65		"	"	8	"
10	"			S by W.	South	1			30.00	72	71	66		"	"	8	"
11	"			"	"	1			30.00	73	72	67		"	"	8	"
Noon.	"			S S.W.	"	1			29.99	74	74	69		"	"	8	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 330 gallons.

Water Distilled during the preceding 24 hours, 960 "

Water remaining on hand fit for use at Noon, 2830 "

Coal consumed during the preceding 24 hours, tons 1840 lbs.

Coal remaining on hand at Noon, 38 " 34 "

P. M.																
1	Ebb.	N.S.W.	South	1	30.00	76	75	69	b.s.	Cir Cums.	8	S.
2	"	North	West	1	30.00	76	75	69	"	"	7	"
3	"	N by W.	"	1	29.99	76	75	99	"	"	8	"
4	"	North	"	1	29.99	76	75	69	"	"	6	"
5	"	"	"	1	29.99	76	75	69	"	"	6	"
6	"	W.S.W.	E.N.E.	1	29.99	76	75	69	"	"	6	"
7	Flood.	S.W by W.	"	1	29.99	76	75	70	"	"	6	"
8	"	S.S.W.	"	1	30.00	74	74	70	"	"	6	"
9	"	"	N.N.W.	1	30.00	74	74	70	"	"	8	"
10	"	"	"	1	30.01	73	73	69	"	"	9	"
11	"	S by W.	East	1	30.01	73	73	69	"	"	9	"
Mid.	"	"	"	1	30.00	72	72	69	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday September 15th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Partly cloudy, pleasant weather. Light airs from S. W. & N. E. At 1:15 swung to ebb. At 4, ebb current, 2.0 knots. Moon set at 12:10

B. F. Waring
Lieut U.S.N.

From 4 to 8 A.M.:
Fair & cool. Light airs from N. E. At 4:30 swung to flood tide. Recd. in Pay Dept. 83 lbs fresh bread for issue to crew.

F. J. Fooks
Ensign U.S.N.

From 8 A.M. to Meridian:
Clear & pleasant. Light airs to light breezes from S. E. & South. Aired bedding. Painted main yard. Flood tide.

C. L. Craig.
Naval Cadet U.S.N.

From Meridian to 4 P.M.
Clear & pleasant. Light airs from South & West. At 12:30 commenced swinging & at 1:30 swung to ebb. Sweed out clear hammocks. Ebb current at 4:00 1.9 knots.

B. F. Waring
Lieut U.S.N.

From 4 to 8 P.M.:
Fair & pleasant. Light airs from West & E.N.E. Raining to the Westward & Southard. Slack water at 6:00 & swung to the flood tide.

C. L. Craig.
Naval Cadet U.S.N.

From 8 P.M to Midnight:
Clear & pleasant weather. Light airs from N.N.W. & East. Riding to the flood. At 10:00, current 1.4 knots.

B. F. Waring
Lieut U.S.N.

Examined and found to be correct.

C. C. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Shimonoseki Nipon.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood.			S by W.	N. E.	1			30.00	72	72	69		b. c.	air cum.	7	S
2	"			South.	"	1			30.00	72	72	69		"	"	6	"
3	Ebb.			N.N.E.	"	1			30.00	71	71	69		b.c.l.	"	5	"
4	"			"	"	1			30.00	71	70	69		"	"	6	"
5	"			"	"	1			30.00	71	70	69		"	"	7	"
6	"			"	East	1			29.99	70	69	67		"	"	7	"
7	"			N. E by N.	"	1			30.01	70	70	67		"	"	7	"
8	Flood.			S by E.	"	1			30.02	71	71	68		"	"	9	"
9	"			South	S. S. E.	2			30.05	72	72	69		b. c.	"	9	"
10	"			S by W.	"	2			30.05	74	73	70		"	"	8	"
11	"			"	"	1			30.06	74	73	70		"	Circus 3d Nimb.	6	"
Noon.	"			S. S. W.	"	1			30.06	74	74	70		b. c. p.	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2530 "

Coal consumed during the preceding 24 hours, tons 1480 lbs.

Coal remaining on hand at Noon, 57 " 794 "

P. M.														
1	Flood.	S. S. W.	West	1	30.02	74	74	70	b. s.	Cir. Cum.	6	S
2	"	"	"	1	30.00	75	74	70	"	"	8	"
3	Ebb.	West	"	2	30.00	75	74	70	"	"	8	"
4	"	North.	"	2	30.00	75	74	70	"	"	8	"
5	"	"	"	3	30.00	74	74	70	"	"	5	"
6	"	"	"	3	30.00	74	74	70	"	"	5	"
7	"	S. W by W.	"	2	30.00	74	74	70	"	"	6	"
8	Flood.	S. W. by S.	"	2	30.01	74	74	70	"	"	7	"
9	"	S by W.	"	1	30.02	74	74	70	"	"	8	"
10	"	S. S. W.	"	2	30.03	74	74	70	"	"	8	"
11	"	"	"	2	30.03	74	74	70	"	"	8	"
Mid.	"	"	W. S. W.	2	30.03	74	73	70	"	"	7	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday September 16th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Fair & pleasant. Light airs from N. N. E. at 3:00 swung to ebb. Moon set at 1:15.

C. F. Jechtun
Lieut U.S.N.

From 4 to 8 A.M.:
Clear & pleasant. Light airs from N. E. & East. Ebb tide, slack water at end of watch & swung to flood. Rec'd on board in Pay Dept. for issue to crew, 103¾ lbs fresh beef, 103¾ lbs fresh vegetables & 83 lbs fresh bread.

C. A. Craig.
Naval Cadet U.S.N.

From 8 A.M. to Meridian:
Clear, pleasant weather. Clouds drifting from Westward last hour with light passing showers. Light airs & breezes from S.S.E. Riding to the flood. Flood current at 10:00 - 1.6 knots. At 9:30 Comdg Officer inspected ship with crew at quarters. Held divine service.

B. H. Wadleigh
Lieut U.S.N.

From Meridian to 4 P.M.
Clear & pleasant. Light airs to light breeze from West. At 3:30 swung to ebb.

C. F. Jechtun
Lieut U.S.N.

From 4 to 8 P.M.:
Fair, pleasant weather. Light to gentle breezes from West. At 6:50 commenced swinging & at 7:10 swung to flood. "Tsuruga Maru" came in.

B. H. Wadleigh
Lieut U.S.N.

From 8 P.M. to Midnight:
Clear & pleasant. Light airs to to light breezes from West & N.S.W. Flood tide. Strength of flood at end of watch 1.6 knots.

C. F. Jechtun
Lieut U.S.N.

Examined and found to be correct.

C. P. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Phemulpo, Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.S.W.	W.S.W.	2			30.04	73	73	70		b.c	cir cum.	5	8
2	"			"	"	2			30.04	73	73	70		"	"	6	"
3	"			S.W.	W.N.W.	2			30.02	73	73	71		b.c.p.	cum nim	6	"
4	Ebb.			N.N.W.	Calm	0			30.02	73	72	70		b.c.	"	7	"
5	"			N. by E.	South	1			30.02	73	72	70		"	"	5	"
6	"			"	S.E.	1			30.03	73	72	70		"	"	4	"
7	"			N.N.E.	"	1			30.06	72	72	70		"	"	3	"
8	Flood.			"	"	1			30.08	72	73	69		"	"	1	"
9	"			S.S.W.	S.S.E.	1			30.10	70	73	70		"	"	3	"
10	"			S by W.	"	1			30.10	74	74	71		"	"	3	"
11	"			S.S.W.	South	2			30.09	74	74	71		"	"	3	"
Noon.	"			"		2			30.10	75	74	71		"	"	4	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2210 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 57 " 394 "

P. M.													
1	Flood.	S.S.W.	W.S.W.	2	30.09	75	75	70	b.c.	cir cum.	4	8
2	"	"	"	2	30.08	75	74	71	"	"	6	"
3	"	S.W.	"	2	30.07	76	75	71	"	"	8	"
4	"	West	"	3	30.07	75	75	72	"	"	8	"
5	Ebb.	S by W.	"	2	30.06	76	76	72	"	"	8	"
6	"	South	West.	2	30.04	76	75	72	"	"	7	"
7	"	S by W.	"	2	30.03	75	75	72	"	"	8	"
8	"	"	"	2	40.04	75	74	72	"	"	8	"
9	Flood.	S.S.W.	"	2	30.04	75	74	71	"	"	8	"
10	"	S by W.	S.W.	2	30.06	74	74	72	"	"	8	"
11	"	S.S.W.	"	2	30.05	74	74	72	"	"	8	"
Mid.	"	"	S W by W	2	30.05	73	74	72	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Monday September 17th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Generally clear and pleasant with light passing rain shower third hour of watch. Calm and light breeze from W.S.W. to W.N.W. Moon set at 1: a.m. Finished swinging to ebb at end of watch.

W B Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.
Overcast and pleasant weather. Light airs from South and S.E. Reid on board and issued to crew 83 lbs. fresh bread At 7:00 commenced swinging and at 7:40 swung to flood.

R. K. Waeing
Lieut U.S.N.

From 8 A.M to Meridian:
Fair and pleasant. Light airs to light breeze from South and S.S.E. Flood tide. Strength of flood at end of watch 1.1 knots. At 9:30 exercised at general quarters. By order of Commander, placed C. J. Andersen (Barber) in double irons until further orders for disobedience of orders.

C. F. Preston
Lieut U.S.N.

From Meridian to 4 P.M.
Fair and pleasant. Light breeze from W.S.W. Sent Navigator's and Engineer's Divisions on shore to fire at target with rifles. Began to swing to ebb at 3:30. Drilled awkward squad.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M
Clear and pleasant. Light breeze from West and W.S.W. Ebb tide. Strength of ebb at end of watch 0.6 knot By order of Comdg. Officer, placed P. Todoroske (r.C.F.) under sentry's charge, to await further action, for being drunk.

C. F. Preston
Lieut. U.S.N.

From 8 P.M to Midnight
Clear and pleasant. Light breeze from West to S.W. by W. Swung to flood at 8:30. Strength of current at 11:30, 1.3 knots. By order of Comdg. Officer, placed P. Todorsco (r.C.F.) in double irons for attempting to get away from sentry's charge

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shimonoseki Kaikio.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.S.W.	S.E.	1			30.06	74	74	72		b.c.	Cir. Cumn.	9	8
2	"			S by W.	"	1			30.06	74	74	72		"	"	9	"
3	"			South	"	2			30.06	73	73	71		"	"	7	"
4	"			S by E.	"	2			30.06	73	73	71		"	"	4	"
5	Ebb			N.E.	E.S.E.	2			30.05	72	72	70		"	Cumn.	4	"
6	"			N.N.E.	"	3			30.05	71	72	69		"	"	5	"
7	"			N.E. by N.	"	3			30.07	71	71	69		"	"	6	"
8	"			N.E.	"	3			30.06	71	71	69		"	Cir. Cumn.	7	"
9	"			E.N.E.	"	2			30.01	72	71	69		"	"	8	"
10	Flood			S by W.	S.W.	1			30.12	74	73	70		"	"	6	"
11	"			"	"	1			30.12	75	73	71		"	"	8	"
Noon.	"			"	"	2			30.11	76	74	71		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.: Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M.: Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 370 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1890 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 56 " 2234 "

P. M.									
1	Flood.	S.S.W.	S.W.	1	30.08 74 73 70	b.c.	Cir. Cumn.	8	8
2	"	"	"	1	30.06 74 74 71	"	"	8	"
3	Ebb.	"	West	2	30.02 75 74 69	"	"	8	"
4	"	S.W. by S.	"	2	30.04 76 74 69	"	"	7	"
5	"	N by W.	"	2	30.03 75 74 69	"	"	7	"
6	"	North	"	2	30.03 74 74 68	o.c.	"	0	"
7	"	N by E.	"	2	30.04 73 74 68	"	"	0	"
8	"	"	"	1	30.04 73 72 68	"	"	0	"
9	"	North	"	1	30.04 73 72 68	b.c.	Cumn.	2	"
10	Flood.	S.W.	"	1	30.02 72 72 68	"	"	1	"
11	"	South	"	1	30.02 72 72 68	"	"	2	"
Mid.	"	"	"	1	30.01 72 72 68	o.c.	"	0	"

under the command of Commander I. F. Jewell, U. S. Navy,
Tuesday September 18th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Clear, decreasing to fair weather. Light airs to light breeze from S. E. Riding to flood tide until end of watch, when slack water. Moon set at 3:16. Rain squall to N.

F. J. Jewell
Ensign U. S. N.

From 4 to 8 A. M.
Fair & pleasant. Light to gentle breeze from E. S. E. Ebb tide. Strength of ebb at end of watch .6 knots. Read & issued to crew 103¾ lbs fresh beef, 103¾ lbs fresh vegetables & 83 lbs bread. The Russian man-of-war "Korietz" went to sea.

F. J. Jewell
Ensign U. S. N.

From 8 A M to Meridian:
C. A. L. Scamman
Lieut U. S. N.
Fair & pleasant. Light airs & breeze from E. S. E. to S. W. At 9:30 mustered crew at quarters & exercised as follows. 1st Div. revolvers, No 1 guns crew, 3d, Navigators & Powder Divs., rifles. Sent No 2 guns crew ashore for rifle target practice. By order of the Senior Officer, Private J. Kohler U. S. M. C. was placed in double irons until further orders, for disobedience of orders & insubordination. Swung to flood at 9:30. Strength of flood at 11:30, 1.4 knots.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P. M:
Clear, warm & pleasant. Light airs from S. W. first half, increasing & shifting to light breeze from West last half. Riding to flood tide, strength at 1:00, 1.5 knots. Sent 3d Div. on shore for target practice with rifles. Carpenter's gang caulking & paying quarter-deck. "Tsuruga Maru" left the harbor. 3d Div. returned from rifle practice.

F. J. Jewell
Ensign U. S. N.

From 4 to 8 P. M.
Cloudy & pleasant. Light airs & breeze from West. Swung to ebb at five o'clock. Strength of current at 7:50, 1.0 knot.

W. B. Hoggatt
Ensign U. S. N

From 8 P. M to Midnight:
Cloudy, moon shining through clouds. Light airs from West. Riding to ebb until 10:00 when swung to flood.

F. J. Jewell
Ensign U. S. N.

Examined and found to be correct.

C. A. L. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Pheneko Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S by W.	West	2			29.99	72	71	68		b.s.	cir. cum.	0	8
2	"			S.S.W.	"	2			29.99	72	71	68		"	"	1	"
3	"			S.W.by W.	"	2			29.97	71	70	67		o.c.	"	0	"
4	"			South	"	2			29.95	71	70	67		"	"	0	"
5	"			S.W.	E.S.E.	2			29.94	71	70	66		"	cum. strat. nimb.	0	"
6	Ebb.			N by E.	S.S.E.	3			29.93	71	71	66		"	"	0	"
7	"			N.E. by N.	"	3			29.92	71	70	66		"	"	0	"
8	"			N.E.	S.E. by S.	3			29.91	71	71	67		"	"	0	"
9	"			"	S.E.	3			29.90	72	71	68		"	"	0	"
10	"			S by E.	"	3			29.90	72	72	68		"	"	0	"
11	Flood.			South	"	3			29.89	73	72	69		"	"	0	"
Noon.	"			"	"	3			29.88	73	72	69		o.c.n.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1570 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 56 " 1834 "

P. M.														
1	Flood	South.	S. by E.	3	29.87	73	72	70	o.s.d.	cum nim.	0	SL
2	"	"	"	3-4	29.82	73	72	70	"	"	0	"
3	"	"	"	4	29.85	73	72	70	o.s.d.gr.	"	0	"
4	"	"	"	5-6	29.69	72	71	68	"	"	0	"
5	Ebb	S.E. by S.	"	5-6	29.68	70	69	67	"	"	0	"
6	"	East	"	5-6	29.63	70	68	66	"	"	0	"
7	"	N.E. by N.	E.S.E.	5	29.61	68	67	65	"	"	0	"
8	"	E.N.E.	"	5	29.60	68	66	65	"	"	0	6
9	"	N.E.	"	5	29.60	67	66	65	"	"	0	"
10	"	East	"	3-5	29.59	67	65	64	"	"	0	"
11	Flood	South	East	2	29.58	67	66	65	"	"	0	"
Mid.	"	S. by W.	"	2	29.58	68	67	65	o.s.	"	0	"

under the command of Commander T. F. Jewell. , U. S. Navy,

Wednesday September 19th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Generally overcast & cloudy. Light breezes from West. Flood tide.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 A.M.:
Overcast & pleasant. Light airs & breeze from E.S.E. to S.S.E. Swung to ebb at 6 o'clock. Reed & mined to crew 83 lbs. fresh bread.

W. B. Hoyt Gatt
Ensign U.S.N.

From 8 A.M to Meridian.:
Overcast & cloudy with rain last hour. Gentle breeze from S.E. At 9:30 mustered & inspected at quarters & immediately afterward called away all boats armed & equipped for cutting out service. Exercised boats under sail at Naval tactics. At 10:00 swung to flood tide. At 11:20 sent down royal yards to fix new main royal-lifts. Carpenters gang caulking & paying quarter-deck. Sailmakers Mate making sail launch cover.

F. J. Soomis
Ensign U.S.N.

From Meridian to 4 P.M.:
Overcast & cloudy with light drizzling rain. Squally last two hours. Gentle to fresh breeze from South, blowing in stiff squalls at times. At 1:00 went to quarters & tallied clear hammocks. Sailmakers Mate at work on sailing launch cover. Flood tide. Barometer falling rapidly. By order of Comdg Officer, placed H. Lyndon (seg) in confinement in double irons for four days, for using provoking language to coxswain.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 P.M.:
Overcast & cloudy with drizzling rain. Stiff to fresh breeze from S. by E. first half & E. S.E. last half. Squally. Mod. seg. Veered 15 fms. on port chain. Broke iron pitch pot. At 5:30 swung to ebb. Barometer falling rapidly.

F. J. Soomis
Ensign U.S.N.

From 8 P.M. to Midnight:
Overcast & cloudy. Drizzling rain & squally first three hours of watch. Light to fresh breezes from E.S.E. & East. Blackwater at 10:00 & swung to the flood tide.

C. S. Craig.
Naval Cadet U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo, Koreg.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood.			S. W by W.	East.	3-4			29.57	68	68	66		o. s. d. g.	cum nim.	0	8
2	"			"	"	2-4			29.57	68	68	66		"	"	0	"
3	"			"	West	2			29.58	68	68	66		o. c. d. f.	"	0	"
4	"			"	"	1			29.59	68	68	66		b. c. d.	"	2	"
5	"			S. W.	"	4			29.58	68	68	65		b. s. p. g.	"	1	"
6	Ebb.			N. W.	N. W by W.	4			29.60	68	68	65		"	"	2	"
7	"			N by W.	N. W.	4			29.62	68	68	66		"	"	1	"
8	"			N W.	"	4			29.64	68	67	65		"	"	1	"
9	"			W by N.	W. N. W.	4			29.66	68	67	65		b. c. g.	"	1	"
10	"			N. W by W.	"	4			29.69	69	67	64		"	"	1	"
11	"			W by S.	"	4			29.70	69	67	64		"	"	1	"
Noon.	Flood.			S. W.	"	4			29.72	69	67	64		"	"	1	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1270 "

Coal consumed during the preceding 24 hours, tons 760 lbs.

Coal remaining on hand at Noon, 56 " 1074 "

P. M.												
1	Flood.	S. W.	W. N. W.	3-5	29.72	68	67	64	b. c. g.	air cum.	1	8
2	"	"	"	3-5	29.72	70	69	64	"	"	3	"
3	"	"	"	3-5	29.71	70	70	65	"	"	4	"
4	"	"	"	3-5	29.72	70	69	64	"	"	4	"
5	"	"	"	3-4	29.74	70	69	64	b. g.	"	4	"
6	"	N. W.	N. W.	3	29.78	70	68	63	"	"	4	"
7	Ebb.	North.	"	3	29.80	69	68	63	"	"	7	"
8	"	"	"	2	29.83	68	67	62	"	"	9	"
9	"	"	"	2	29.84	68	67	62	"	"	9	"
10	"	N. by W.	"	2	29.86	68	67	63	"	"	9	"
11	Flood	W. by S.	"	2	29.88	67	67	63	"	"	9	"
Mid.	"	S. W.	"	2	29.89	67	66	63	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday September 20th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Cloudy weather with drizzling rain. Foggy third hour. Moon occasionally visible last hour. Light to moderate breezes from East first two hours when wind shifted quickly to West & decreased to light breezes & airs. Riding to the flood. Flood current 1.1 knots.

B. F. Walling
Lieut U. S. N.

From 4 to 8 A. M.:
Overcast & cloudy, with passing rain squalls. Mod. breeze from West, gradually veering to N. W. Roused up & overhauled both bower chains & sheet chain. Slack water at 5:00 & swung to ebb at 6:00. Recd in Pay Dept. for issue to crew 103¾ lbs. each fresh beef & vegetables & 83 lbs fresh bread. Barometer rising.

F. J. Soomus
Ensign U S N.

From 8 A. M to Meridian:
Cloudy, squally weather. Moderate breeze from N. W. Paid both bower & sheet chains below, & hove in 71 fms. of port bower chain, overhauled the 45 & 60 fm. shackles & secured the chain. Scrubbed down the decks & ladders with sand. Ebb tide. Slack water at noon & swinging to the flood. Barometer Rising.

C. S. Craig
Naval Cadet U. S. N.

From Meridian to 4 P. M:
Pleasant weather, sky partially clouded with cirrus & cirro-cumulus clouds. Gentle to stiff breezes in squalls from N. N. W. Riding to the flood tide. At 1:30 flood current 1.9 knots. At 2: started fires in Nos. 2 & 4 boilers for distilling.

B. F. Walling
Lieut U. S. N.

From 4 to 8 P. M:
Fair & cool. Clear at end of watch. Moderate to light breezes from W N W & N. W. At 7:00 turned the distilled water into the hold. Slack water at 6:30 & commenced swinging to the ebb tide. Barometer rising. Bright moonlight.

C. S. Craig
Naval Cadet U. S. N.

From 8 P. M. to Midnight:
Clear, pleasant weather. Light breezes from N. W. At 10:45 commenced swinging & at 11:15 swung to flood. Distilling

B. F. Walling
Lieut U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.S.W.	N.W.	2			29.90	67	67	63		b.s.	cir cum.	9	5
2	"			"	"	2			29.89	66	65	63		"	"	9	"
3	"			"	"	2			29.88	66	65	62		"	"	9	"
4	"			"	"	1			29.89	66	65	62		"	"	9	"
5	"			S by W.	West	2			29.90	66	65	62		"	"	8	"
6	Ebb.			S.W.	"	1			29.92	66	65	62		"	"	8	"
7	"			N.N.E.	East.	1			29.90	66	65	63		"	"	8	"
8	"			N by E.	"	1			29.94	67	66	63		"	"	8	"
9	"			N.W.	Calm.	0			29.96	67	66	63		"	"	9	"
10	"			N.N.E.	"	0			29.98	68	67	63		"	"	9	"
11	"			N.W.	West.	1			30.00	68	67	63		"	"	9	"
Noon.	Flood.			"	"	1			30.00	69	68	64		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1330 "

Water remaining on hand fit for use at Noon, 2300 "

Coal consumed during the preceding 24 hours, 2 tons 60 lbs.

Coal remaining on hand at Noon, 54 " 1014 "

P. M.														
1	Flood	S by W.	Calm.	0	29.99	70	69	64	b.s.	cir cum.	9	5
2	"	S.S.W.	N.N.W.	2	29.98	70	70	64	"	"	9	"
3	"	"	"	3	29.98	72	71	65	"	"	9	"
4	"	"	"	3	29.98	72	71	65	"	"	9	"
5	"	"	"	3	29.97	73	71	66	"	"	9	"
6	"	S.W. by S.	"	2	29.97	72	70	65	"	"	9	"
7	Ebb.	North	"	2	29.98	72	71	66	"	"	9	"
8	"	"	"	2	29.99	71	71	66	"	"	9	"
9	"	N.N.W.	N.N.W.	1	30.00	71	70	66	b.	Atoms	10	"
10	"	N. by E.	"	1	30.01	70	70	66	"	"	10	"
11	"	N.N.E.	Calm	0	30.03	70	70	66	"	"	10	"
Mid.	Flood.	South	"	0	30.02	69	69	66	b.s.	cir cums	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday September 21st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Clear & pleasant. Bright moonlight. Light airs & light breeze from N. W. Flood tide. Distilling.

C. F. Preston
Lieut. U. S. N.

From 4 to 8 A. M.:
Clear cool & pleasant. Light airs from West shifting to East latter part of watch. Slack water at 6:00 & swung to ebb. Reid on board in Pay Dept. for issue to crew, 103¼ lbs fresh beef, 103¾ lbs fresh vegtables & 83 lbs. fresh bread.

C. S. Craig.
Naval Cadet U.S.N.

From 8 A. M. to Meridian:
Clear, pleasant weather. Calms, & light airs from West. At 9:30 inspected at quarters. Exercised First & Third Divisions at Great Guns: V" Sw. Rifles, Navigators Div. Machine guns: Powder Division left the ship for Small Arm target practice. At 10:55 commenced swinging & at 11:35 swung to flood. Ebb current 0.8 knot.

B. G. Walling
Lieut U.S.N.

From Meridian to 4 P. M.:
Clear & pleasant. First hour calm, then light to gentle breeze from N.N.W. Flood tide. At 300 strength of flood 1.9 knots. Sent sailing launch out for target practice with smooth bore howitzer. Distilling. At 1:00 exercised at fire-quarters. Recd a visit from an officer of the Japanese man-of-war Banjo Kan requesting us to join him in dressing ship to-morrow. Moored mooring swivel 4 above water. Expended in Ordnance Dept. 2-10 oz. Charges, 2-12 pdr. shell, 2 bags & 2 primers.

C. F. Preston
Lieut U.S.N.

From 4 to 8 P. M.:
Clear, pleasant weather. Light to gentle breezes from N.N.W. At 6:45 commenced swinging, & at 7:10 swung to flood.

B. G. Walling
Lieut. U.S.N.

From 8 P. M. to Midnight:
Clear & pleasant. Bright moonlight. Calm & light airs from N.N.W. Ebb tide. Slack water at end of watch. At 11:50 stopped distilling, the tanks being full, & hauled fires

C. F. Preston
Lieut. U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.S.W.	E.S.E.	1			30.02	68	68	65		G.S.	cir. cum.	9	3
2	"			S. by W.	"	1			30.02	68	68	65		"	"	9	"
3	"			"	"	2			30.02	67	68	64		"	"	9	"
4	"			"	"	2			29.99	67	67	64		"	"	8	"
5	"			"	"	2			30.00	67	66	64		"	"	8	"
6	"			South	S.E.	2-3			30.02	67	66	64		"	"	7	"
7	Ebb			East	"	2-3			30.03	69	65	62		"	"	7	"
8	"			N by E	"	2-3			30.03	69	67	63		"	"	7	"
9	"			"	"	2-3			30.05	69	67	64		"	"	7	"
10	"			N.E. by N.	"	2			30.07	70	69	65		"	"	6	"
11	"			"	"	2			30.08	71	69	65		"	"	6	"
Noon.	Flood.			S W by S.	"	2			30.06	71	70	67		"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 700 "

Water remaining on hand fit for use at Noon, 7800 "

Coal consumed during the preceding 24 hours, 1 tons 140 lbs.

Coal remaining on hand at Noon, 53 " 874 "

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.																	
1	Flood.			S. by W.	S.S.W.	2			30.05	75	72	67		G.S.	cir. cum.	8	3
2	"			S.S.W.	"	2			30.03	75	72	68		"	"	7	"
3	"			"	"	2			30.01	75	74	69		"	"	8	"
4	"			"	"	2			30.00	76	75	70		"	"	9	"
5	"			"	S.W. by S.	2			29.99	76	75	71		"	"	9	"
6	"			"	West	2			29.97	76	75	71		"	"	7	"
7	"			S.W.	"	1			29.96	74	74	71		"	"	8	"
8	Ebb			North.	"	1			29.96	74	73	71		"	"	8	"
9	"			"	"	1			29.97	74	73	71		"	"	8	"
10	"			"	"	1			29.99	73	72	70		"	"	7	"
11	"			N. by W.	South.	2			30.00	73	72	70		"	"	7	"
Mid.	Flood.			S. by W.	"	3			30.00	72	71	70		"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday September 22nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M:
Clear & pleasant. Light airs & breezes from E. S. E. At 7:00 A.M, strength of flood 1.5 knots

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.:
Clear, pleasant weather. Light to gentle breezes from S. E. Reid on board & issued to crew, 83 lbs fresh bread. At 8:00 dressed ship masthead on occasion of the Autumnal Fete of the deceased Empress of Japan. At 7: commenced swinging & at 7:30 swung to Ebb. Flood current 1.0 knot.

B. T. Waring
Lieut U.S.N.

From 8 A.M to Meridian:
Clear & pleasant. Light breeze from S. E. At 11:30 swung to flood. By order of Commander, released C. J. Andersey (Baker) & C. Todorkes (Q.M.)

A. F. Teehuin
Lieut U.S.N.

From Meridian to 4 P.M:
Clear & pleasant. Light breezes from S. S. W. Strength of flood at 3:30 p.m. 2 knots.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.:
Clear & pleasant. Light airs & light breeze from S. W. by S & West. At 7:30 swung to ebb.

A. F. Teehuin
Lieut U.S.N.

From 8 P.M to Midnight
Clear & pleasant. Light airs to gentle breeze from West, shifting to South

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			South	S. S. E.	3			29.98	72	70	68		b. c.	Cir Cum.	8	S
2	"			S by W.	"	3			29.97	71	70	68		"	"	7	"
3	"			S. S. W.	"	3			29.96	72	70	68		"	"	8	"
4	"			"	S. S. W.	3			29.93	72	72	68		b. c. l.	"	8	"
5	"			"	"	3			29.91	72	72	67		"	"	8	"
6	"			"	"	2			29.90	72	71	68		b. c.	"	5	"
7	"			S. W.	W. S. W.	2-4			29.92	70	69	67		b. c. u. l.	Cum Nim.	2	"
8	"			N by E.	"	2			29.90	69	68	65		b. c. p.	"	2	"
9	Ebb			North	West	2			29.91	70	69	67		b. c.	"	3	"
10	"			N by E.	"	2			29.93	70	69	67		b. c. p. t. l. l.	"	1	"
11	"			North	"	2			29.93	70	69	65		b. c.	Cir Cum.	8	"
Noon.	"			N. W.	N W.	3			29.94	71	70	65		"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 53 " 474 "

P. M.													
1	Ebb	N W	N. W.	4	29.98	72	70	66	b. c.	cums.	6	8
2	Flood	S. W.	"	4	29.99	72	70	66	"	"	7	"
3	"	"	"	4	30.00	72	70	66	"	"	8	"
4	"	"	"	4	30.00	72	68	64	"	cir cum.	8	"
5	"	S. W. by S.	"	3-4	30.01	70	68	67	"	"	8	"
6	"	"	"	3-4	30.01	69	68	67	"	"	8	"
7	Ebb	N. S. W.	"	3-4	30.03	68	68	67	"	"	8	"
8	"	North	"	3-4	30.07	63	65	61	"	"	7	"
9	"	"	"	4	30.09	63	64	60	"	"	6	"
10	"	"	"	4	30.09	59	57	52	"	"	6	"
11	"	"	North	4	30.15	58	56	51	"	"	7	"
Mid.	"	N by W.	"	4	30.18	57	55	50	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday September 23d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear & pleasant. Rain squalls around horizon. Gentle breeze from S.S.E. Riding to flood tide. Bright moonlight.

F. J. Boorman
Ensign U.S.N.

From 4 to 8 A.M.:
First half of watch, clear & pleasant, with light to gentle breeze from S.S.W. Lightning to N'd & W'd. At 6:40 heavy rain squall from W.S.W., wind shifting suddenly. At end of watch, cloudy & pleasant. At 7:30 swung to ebb At 7:30 strength of flood 1.6 knots. Received & issued to crew 103¾ lbs fresh beef 103¾ lbs fresh vegetables & 83 lbs. fresh bread. Lieut. Galloway & Ensign Hoggatt left the ship on five days leave.

A. T. Jewell
Lieut U.S.N.

From 8 A.M. to Meridian:
Generally fair, except second hour, when a heavy rain squall passed over accompanied by thunder, lightning & heavy hail. Light to gentle breeze from West until last hour, when N.W. By order of Comdg Officer released Privt. J. Kohler (U.S.M.C.) & H. Syndon (Sea) from confinement their term of confinement having expired. Riding to ebb tide. A Japanese boarding officer called to present the thanks of the Comdg Officer for the participation of this ship in the Autumnal Fête of deceased Empress of Japan.

F. J. Boorman
Ensign U.S.N.

From Meridian to 4 P.M.:
Clear & pleasant. Moderate breeze from N.W. Slack water at 1:30 & swung to flood. Strength of flood at at end of watch 1.6 knots.

C. D. Craig
Naval Cadet U.S.N.

From 4 to 8 P.M.:
Clear cool & pleasant. Bright starlight. Gentle to moderate breeze from N.W. Riding to flood tide until 7:00 when swung to ebb.

F. J. Boorman
Ensign U.S.N.

From 8 P.M. to Midnight:
Clear & cool. Moderate breeze from N.W. & North. Moon rose at 8:00. Ebb tide.

C. D. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shemulpo Koreq

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
1	Flood.			N.N.W.	N.N.W.	3-6			30.20	56	55	50		b.q.	Clear.	10	
2	"			S.W.	"	3-6			30.21	56	55	50		"	"	10	
3	"			"	"	3-6			30.22	56	55	50		"	"	10	
4	"			"	"	3-6			30.22	56	55	50		"	"	10	
5	"			S.W.by S.	"	4			30.23	57	55	51		"	"	10	
6	"			S.S.W.	N.by E.	3			30.24	57	55	51		"	"	10	
7	Ebb.			South	"	3			30.26	57	54	49		b.	"	10	
8	"			N.by E.	"	2			30.27	55	53	48		"	"	10	
9	"			"	"	2			30.29	56	52	48		"	"	10	
10	"			"	"	2			30.30	56	55	50		"	"	10	
11	"			N.N.E.	"	2			30.31	58	57	51		"	"	10	
Noon.	"			N.by E.	"	2			30.31	59	58	52		"	"	10	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 53 " 74 "

P. M.												
1	Slack	N.W.	N.N.by W.	2	30.30	60	59	58	b.q.	cir. cum.	9	S
2	Flood.	S.S.W.	"	1	30.30	61	60	55	"	"	9	"
3	"	S.W.by S.	N.W.	2	30.29	64	62	55	"	"	9	"
4	"	"	"	2	30.27	64	63	55	"	"	9	"
5	"	"	W.N.W.	3	30.27	65	64	57	"	"	9	"
6	"	S.S.W.	"	3	30.28	65	64	57	"	"	7	"
7	"	S.W.by S.	"	3	30.27	65	64	57	"	"	7	"
8	Ebb.	W.by N.	"	2	30.27	65	64	57	"	"	8	"
9	"	North	N.N.W.	2	30.27	63	62	56	"	"	8	"
10	"	"	"	2	30.27	62	61	55	"	"	8	"
11	"	N.by E.	North	2	30.29	62	61	56	"	"	8	"
Mid.	"	N.N.E.	"	2	30.29	60	59	55	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday September 24th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences E & until 4 A.M.:

Clear, cool weather. Gently breezes with fresh squalls from N.N.W. Bright moonlight. At 12:15 commenced swinging E & at 1:20 swung to flood. At 4 flood current 1.2 knots.

B. H. Wadleigh
Lieut U.S.N.

From 4 to 8 A.M.:

Clear, cool, E & pleasant. Mod. breeze from N.N.W. first hour, shifting E & decreasing to gentle breeze from N. by E. Recd in Pay Dept. for issue to crew, 83 lbs. fresh bread. Slack water at 7:00, swung to ebb at 7:30

F. J. Boyd
Ensign U.S.N.

From 8 A.M. to Meridian:

Clear, cool, E & pleasant. Light breeze from N. by E. At 9:30, called "all hands" E & cleared ship for action, time 16 min. 45 sec. At 9:50 beat to quarters. At 10:20 secured ship from action. Ebb tide all watch Tested magazine and shell room flood-cocks.

C. S. Craig
Naval Cadet U.S.N.

From Meridian to 4 P.M.:

Clear, pleasant weather. At 12:30 commenced swinging E & at 1:15 swung to flood. Light airs & breezes from N.W by W.: Light breezes from N.W.

B. H. Wadleigh
Lieut U.S.N.

From 4 to 8 P.M.:

Clear, cool E & pleasant. Light to gentle breeze from N.N.W. At 5:53, sunset, sent down topgallant yards E & masts. N. Chinese steamer came into the harbor. Slack water at end of watch E & commenced swinging to the ebb tide.

C. S. Craig
Naval Cadet U.S.N.

From 8 P.M. to Midnight:

Clear, cool weather. Light breezes from N.W. E & North. At 8:20 swung to ebb. Ebb current 1.6 knots.

B. H. Wadleigh
Lieut U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut E & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N.N.E.	North	2			30.28	59	58	54		b.s.	Cir cum.	9	S
2	Flood			S by E.	N.N.E.	2-3			30.29	59	58	55		"	"	9	"
3	"			S. by W.	"	2-3			30.28	58	58	58		"	"	9	"
4	"			"	"	2-3			30.27	58	57	53		"	"	9	"
5	"			"	N. E.	3			30.27	59	58	54		b.	Clear	10	"
6	"			"	"	3			30.27	59	58	54		"	"	10	"
7	"			"	"	2			30.28	59	58	54		"	"	10	"
8	"			S. E. by S.	E. N. E.	2			30.29	60	58	55		"	"	10	"
9	Ebb.			N. by E.	N.N.E.	2			30.29	60	58	55		"	"	10	"
10	"			"	"	2			30.29	61	58	55		"	"	10	"
11	"			N.N.E.	"	2			30.29	63	62	57		"	"	10	"
Noon.	"			N. by E.	N. by E.	2			30.29	64	64	58		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 52 " 1914 "

P. M.													
1	Ebb.	N.N.W.	North	1	30.25	66	66	60	b.	None	10	S
2	Flood.	S.S.W.	N.N.W.	2	30.23	70	69	67	"	"	10	"
3	"	"	"	2	30.20	72	71	65	"	"	10	"
4	"	S. by W.	"	1	30.19	72	73	66	"	"	10	"
5	"	S.S.W.	W.N.W.	1	30.18	72	72	66	"	"	10	"
6	"	"	"	1	30.18	72	72	66	"	"	10	"
7	"	"	"	1	30.15	70	70	66	"	"	10	"
8	"	"	"	1	30.18	70	70	66	"	"	10	"
9	Ebb.	North	N.N.W.	1	30.18	69	68	65	"	"	10	"
10	"	N. by E.	"	1	30.18	68	67	65	b.s.	Cir cums.	9	"
11	"	N.N.E.	"	1	30.18	68	68	65	"	"	9	"
Mid.	"	"	Calm.	0	30.18	68	67	64	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday September 25th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Clear & cool. Bright moonlight. Light to gentle breezes from North & N. N. E. At 1:30 swung to flood. Strength of flood at end of watch 1.6 knots.

A. F. Fechteler
Lieut U. S. N.

From 4 to 8 A. M.:
Clear cool & pleasant. Light to gentle breezes from N. E. & E. N. E. At 8:50 sent up topgallant yards & masts. Recd on board in Pay Dept. for issue to crew 103¾ lbs fresh beef, 103¾ lbs. fresh vegetables & 83 lbs fresh bread. Flood tide, slack water at 8:00

C. S. Craig.
Naval Cadet U. S. N.

From 8 A. M. to Meridian
Clear pleasant weather. Light breezes from N. N. E. & N by E. At 9:30 inspected at quarters. Exercised all divisions at Rifles. Part of 2nd Div. left ship for target practice. At 8:10 commenced swinging & at 8:42 swung to flood. Current 1.0 knot

B. T. Walling
Lieut U. S. N.

From Meridian to 4 P. M.:
Clear & pleasant. Light airs to light breez from North & N. N. W. At 1:30 swung to flood. Strength of flood at ends of watch 1.5 knots.

A. F. Fechteler
Lieut U. S. N.

From 4 to 8 P. M.:
Clear, pleasant weather. Light airs from W. N. W. Sent down topgallant yards. At 7:50 beat to general quarters. All divisions ready in 2 min., secured in 3 min 30 sec.

B. T. Walling
Lieut U. S. N.

From 8 P. M to Midnight:
Clear & cool. Light airs from N. N. W. Calm last hour. Moon rose at 8:58. Ebb tide. Strength of ebb at end of watch 1.2 knots

A. F. Fechteler
Lieut U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d. Rate,

Moored in the harbor of Chemulpo Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N.N.E.	E.N.E.	1			30.18	67	67	64		b.s.	Cir Cum.	9	8
2	Flood.			S.E.	"	1			30.18	66	66	63		"	"	8	"
3	"			South	"	1			30.18	66	65	63		"	"	9	"
4	"			S by W	"	1			30.17	65	64	62		"	"	8	"
5	"			S.S.W.	N.N.E.	1			30.15	66	64	62		"	"	8	"
6	"			"	"	2			30.15	66	64	62		"	"	8	"
7	"			S by W.	"	2			30.17	66	64	62		"	"	8	"
8	"			South	"	2			30.18	66	65	62		"	"	8	"
9	Ebb			N.N.E.	N.E.	2			30.20	68	66	63		"	"	7	"
10	"			"	"	2			30.20	68	66	63		"	"	8	"
11	"			"	"	2			30.20	68	67	64		"	"	9	"
Noon.	"			N by E.	"	2			30.19	70	69	65		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water [illegible] during the preceding 24 hours, [illegible] "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 52 " 1514 "

P. M.													
1	Ebb	N. by E.	N. by E.	2	30.19	71	70	65	b.s.	Cir Cum.	9	8
2	Flood	S.S.W.	W.S.W.	2	30.18	73	72	67	"	"	5	"
3	"	S by W.	"	2	30.17	74	73	68	"	"	4	"
4	"	S.W. by S.	W.N.W.	2	30.16	74	73	69	"	"	5	"
5	"	"	"	2	30.15	73	72	68	"	"	6	"
6	"	S.S.W.	"	2	30.13	72	71	67	"	"	3	"
7	"	"	"	2	30.11	72	71	66	"	"	7	"
8	"	S.W. by S.	"	2	30.11	71	71	67	"	"	8	"
9	Ebb	West	"	1	30.11	71	70	67	"	"	8	"
10	"	North	"	1	30.11	70	70	67	"	"	7	"
11	"	"	"	1	30.11	70	70	67	"	"	6	"
Mid.	"	N. by E.	"	1	30.11	69	69	66	"	Cir Cum	6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday September 26th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear, cool & pleasant. Light airs from E. N. E.
At 7:00 swung to flood.

T. J. Brownell
Ensign U.S.N.

From 4 to 8 A.M.:
Clear pleasant wrather. Light airs & breezes from N. N. E. Recd on board & issued to crew 83 lbs. Fresh Bread. Riding to flood. Current 1.3 knots

B. A. Watring
Lieut. U.S.N.

From 8 A.M. to Meridian:
Clear & pleasant. Light breezes from N. E. At 8:45 swung to ebb. Strength of ebb at end of watch ½ knot. At 9:30 inspected at quarters. Exercised 1st 2nd & 3d Divisions at great guns. Navigators Div. at rifles, Marines at Skirmish Drill. Threw called away all boats & exercised them in fleet tactics under oars & sail. Sailing launch fired at an improvised target with smooth-bore howitzer, expending 1-10oz. charge & bag, 1-12 pdr. percussion shell, & 5 primers. Recd on board in Pay Dept. $4605.76 in Mexicans

A. A. Seaman
Lieut. U.S.N.

From Meridian to 4 P.M.
Li Clear, decreasing to fair weather. Warm Light breezes from N by E first hour, shifting to W.S.W. & then to W.N.W. Overhauled sails preparatory to bending. Carpenters gang caulking & paying deck. Greased spars. Sailing launch exercising under sail & at target with 12 Pdr. At 1:45 swung to flood. Strength of tide at 3:40, 1.3 knots

T. J. Brownell
Ensign U.S.N.

From 4 to 8 P.M.:
Clear & pleasant. Light breeze from W.N.W. Flood tide. Expended in Ord. Dept. 8-10 oz charges & bags, 8-12 pdr percussion shells & 10 primers

A. A. Seaman
Lieut. U.S.N.

From 8 P.M. to Midnight:
Clear, cool & pleasant. Light airs from W.N.W. At 9:00 swung to ebb. At 7:40 moon rose.

T. J. Brownell
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N.E.	W.N.W.	1			30.12	69	69	65		b.s.	cir cum.	8	S
2	Flood			W.N.W.	N.N.E.	1			30.12	69	68	65		o.s.	"	0	"
3	"			South	"	1			30.11	69	68	65		"	"	0	"
4	"			S.S.W.	"	1			30.11	68	68	64		"	"	0	"
5	"			S. by W.	"	1			30.10	68	68	66		"	"	0	"
6	"			"	"	1			30.10	68	67	65		"	"	0	"
7	"			S.S.W.	"	1			30.10	68	67	65		"	"	0	"
8	"			"	N.N.W.	1			30.11	68	67	65		"	"	0	"
9	Ebb			N.N.E.	N.N.E.	2			30.12	68	67	64		"	"	0	"
10	"			"	"	2			30.12	68	67	64		"	"	1	"
11	"			"	"	2			30.12	69	68	64		"	"	0	"
Noon.	"			"	"	2			30.12	69	68	64		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 52 " 11 44 "

P. M.														
1	Ebb	N.E.	N.E.	2	30.10	70	70	66	b.s.	Cum cir	3	S
2	Flood	S.S.W.	S.W.	2	30.07	72	71	67	"	cum.	6	"
3	"	S. by W.	"	2	30.08	73	72	67	"	"	7	"
4	"	"	W.S.W.	1	30.08	74	73	69	"	"	4	"
5	"	S.W. by S.	"	2	30.08	72	72	68	"	"	3	"
6	"	"	"	2	30.08	71	71	68	"	"	2	"
7	"	"	"	2	30.08	71	70	67	"	"	6	"
8	"	"	"	2	30.08	71	70	67	"	"	6	"
9	"	"	"	2	30.07	71	70	66	"	"	6	"
10	Flood	N.W. by N.	"	2	30.04	68	69	65	"	"	7	"
11	"	North	"	2	30.04	68	68	64	"	"	7	"
Mid.	"	"	"	2	30.02	68	68	64	"	"	7	"

under the command of Commander T. F. Dewell, U. S. Navy,

Thursday September 27th, 1855.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 P.M.:
Clear first hour, overcast & cloudy remainder of watch. Light airs from W.N.W. & N.N.E. Slack water at 1:30 & swung to the flood.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 P.M.:
Overcast & cloudy. Light airs from N.N.E. & N.N.W. Flood tide. Read & issued to crew, 103¾ lbs fresh beef, 103¾ lbs fresh vegetables & 83 lbs fresh bread.

A. T. Dechtan
Lieut U.S.N.

From 8 A.M. to Meridian:
Overcast & cloudy. Light breeze from N.N.E. At 8:45 swung to ebb. At 9:25 mustered & inspected at quarters. Exercised 1st & 3d, Stat. & Powder Divisions at pistol drill & 2nd Div. at dismounting & transporting broadside guns. Sent 1st Div. ashore for target practice. At 11:00 Tsuruga Maru came in & anchored. Received U.S. Mail. S.M.S. "Kusang-Chi" came out from inner harbor & anchored.

F. J. Forrest
Ensign U.S.N.

From Meridian to 4 P.M.:
Cloudy & pleasant. Light airs to light breezes from N.E. & S.W. Broke out all sails preparatory to bending sail. Two Japanese officers called on the ship. Carpenters gang at work caulking & paying the deck. Slack water at 1:30 & swung to the flood tide.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 P.M.:
Fair. Light breeze from W.S.W. Flood tide. Slack water at end of watch. At 4:07 called all hands bend sails. Sent sails & crossed light yards. At sunset sent down royal yards. At 6:30 started fires in boilers 2 & 4 for condensing.

F. J. Forrest
Ensign U.S.N.

From 8 P.M. to Midnight:
Fair & pleasant. Light breezes from N.W. ½ N. & North. At 11:00 started distilled water into the hold. Moon rose at 10:00 Slack water at 9:30 & swung to the ebb tide.

C. S. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

E. N. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d. Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			North	N.W.	2			30.03	68	67	64		b.c.	Cumu.	4	3
2	"			N.N.W.	"	2			30.02	67	66	63		"	"	3	"
3	Flood.			W.S.W.	"	2			30.01	67	65	63		"	"	5	"
4	"			"	"	2			30.00	67	65	63		"	"	6	"
5	"			S.S.W.	"	2			30.01	67	65	63		"	"	5	"
6	"			S by W.	North	2			30.01	66	65	63		"	"	1	-
7	"			S.W. by S.	"	2			30.01	65	64	62		o.c.	Cum Num.	0	"
8	"			S. by W.	"	2			30.01	66	65	63		"	"	0	"
9	Ebb.			S.W.	Calm	0			30.00	66	66	63		b.c.	"	1	"
10	"			N.N.W.	"	0			30.00	67	66	63		"	"	1	"
11	"			North	West	2			30.00	67	66	63		"	Cir. Cum.	3	"
Noon.	"			"	"	2			30.00	68	67	63		"	"	3	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1000 "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, 1 tons 1400 lbs.

Coal remaining on hand at Noon, 50 " 1954 "

P. M.												
1	Ebb.	North	West	2	29.97	69	68	64	b.c.	Cir Cum.	4
2	"	N.N.W.	"	2	29.99	70	69	64	"	"	4
3	"	N.S.W.	"	3	29.97	70	69	64	"	"	5
4	Flood	S.W. by S.	W.S.W.	3	29.96	71	70	65	"	"	5
5	"	S.S.W.	"	3	29.96	71	71	66	"	"	7
6	"	S.W.	N.W.	3	29.98	71	71	66	"	Cir Cum.	8
7	"	"	"	3	29.98	70	70	64	"	"	7
8	"	"	"	3	29.99	69	68	63	"	"	8
9	"	N by S.	"	3	29.98	67	67	62	"	"	9
10	Ebb.	N.N.W.	N.N.W.	3	29.99	66	65	60	"	"	8
11	"	North	"	3	29.99	64	63	59	"	"	8
Mid.	"	N by E.	North	3	30.00	63	62	59	"	"	8

under the command of Commander T. F. Jewell, U. S. Navy,

Friday September 28th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 P.M.:
Clear, pleasant weather. Light breezes from N.W. Moonlight. At 2:15 commenced swinging & at 2:55 swung to the flood.

B. F. Waring
Lieut U.S.N.

From 4 to 8 A.M.:
Cloudy & pleasant weather. Light breeze from N.W. & North. Flood tide. Cleaned bilges. Reed in Pay. Dept. for issue to crew, 103¾ lbs. each fresh beef & vegetables & 8⅓ lbs. fresh bread. At 7:50 crossed royal yards. Condensing. The P.M.S.S. Kwang-Chi left the harbor.

F. J. Fromm
Ensign U.S.N.

From 8 A.M to Meridian:
Cloudy & pleasant. Calms, & light breeze from West. At 9:30 mustered at quarters & inspected divisions. At 9:55 called all hands & exercised at sail drill. By order of Comdg. Officer, placed J. A. Richards (OS) in confinement in double irons for five days for assault, & reduced E. A. Seifert, Coxn to second class, for using provoking language to J. A. Richards. Black water at 9:00 & swung to ebb tide. Distilling.

C. A. Craig
Naval Cadet U.S.N.

From Meridian to 4 P.M.:
Clear, pleasant wrather. Light to gentle breezes from West. Gentle breezes from W.S.W. At 1:45 commenced swinging & at 2:45 swung to flood. Ebb current 0.9 knot.

B. F. Waring
Lieut U.S.N.

From 4 to 8 P.M.:
Clear & pleasant. Gentle breezes from W.S.W. shifting to N.W. At 4:40 sent down royal yards. At 5:30 exercised at fire quarters, all divisions ready in 50 sec. Flood tide.

C. A. Craig
Naval Cadet U.S.N.

From 8 P.M to Midnight:
Clear, cool & pleasant. Gentle breezes from N.W., N.N.W. & North. At 9:00 commenced swinging & at 9:40 swung to ebb. Moon rose at 11:05. Distilling.

B. F. Waring
Lieut U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N. by E.	N. E.	3			29.97	61	61	57		G. S.	Cir Cumn.	5	S.
2	"			"	"	3			29.97	60	61	56		"	"	5	"
3	"			"	"	3			29.97	60	60	56		"	"	4	"
4	"			"	"	2			29.96	60	59	56		"	"	5	"
5	Flood.			N. by W.	North	3			29.96	60	59	56		"	"	6	"
6	"			S. W. by W.	"	3			29.98	61	59	56		"	"	6	"
7	"			"	"	3			29.99	62	60	57		"	"	4	"
8	"			"	"	2			30.01	63	61	59		"	"	5	"
9	"			"	"	2			30.02	63	61	59		"	"	7	"
10	Ebb.			S. W.	"	2			30.03	64	62	59		"	"	7	"
11	"			W. N. W.	"	2			30.03	65	63	59		"	"	7	"
Noon.	"			North.	"	1			30.03	66	65	60		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at P.M. " W x N ° 4' 39" W

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1100 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 1 tons 370 lbs.

Coal remaining on hand at Noon, 49 " 1634 "

P. M.												
1	Ebb	N. by E.	N. N. W.	1	30.02	67	67	61	G. S.	Cir Cumn.	8
2	"	North	"	1	30.00	68	67	61	"	"	8
3	"	W. N. W.	W. N. W.	2	29.99	69	68	61	"	"	8
4	Flood.	West	"	2	29.99	71	69	61	"	"	8
5	"	S. W. by W.	West	2	29.98	71	69	62	"	"	8
6	"	S. W.	"	2	29.97	70	69	63	"	"	8
7	"	S. W. by S.	"	2	29.96	68	68	63	"	"	8
8	"	S. W.	"	2	29.96	67	68	62	"	"	8
9	"	S. W. by W.	"	3	29.98	68	68	62	"	"	8
10	"	West	N. W.	3	30.00	66	67	61	"	"	9
11	Ebb	N. W.	"	3	30.01	64	65	59	"	"	9
Mid.	"	N. N. W.	North	3	30.01	63	64	55	"	"	9

under the command of Commander T. F. Dewey, U. S. Navy,
Saturday September 30th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced & until 4 P. M.:
Fair & cool. Light to gentle breezes from N.E. Ebb tide. At 2:00 stopped distilling & hauled fires the tanks being full

C. F. Preston
Lieut U.S.N.

From 4 to 8 A. M.:
Fair cool & pleasant. Light to gentle breeze from North. Slack water at 4:30 & swung to the flood tide. Recd on board in pay. Dept., for issue to crew, 83 lbs. fresh bread.

C. A. Craig
Naval Cadet U.S.N.

From 8 A. M. to Meridian:
Clear pleasant weather. Light airs & breezes from North. At 9:50 commenced swinging & at 10:30 swung to ebb. Aired bedding

B. T. Waring
Lieut U.S.N.

From Meridian to 4 P. M.:
Clear & pleasant. Light airs & light breezes from N. N. W. & W. N. W.. Ebb tide.

C. F. Preston
Lieut. U.S.N.

From 4 to 8 P. M.:
Clear & pleasant. Light breezes from West Riding to the flood. Current 1 knot

B. T. Waring
Lieut U.S.N.

From 8 P. M. to Midnight:
Clear & cool. Gentle breezes from North & N. W. Ebb tide.

C. F. Preston
Lieut. U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shemulpo Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N by W.	N.N.W.	3			30.02	61	60	54		b.c.	Cir Cum.	9	8
2	"			"	"	3			30.02	61	59	54		"	"	9	"
3	"			North	"	2			30.02	61	58	53		"	"	9	"
4	"			N. by W.	"	2			30.02	60	57	52		"	"	9	"
5	Flood			"	"	2			30.02	60	57	52		"	"	9	"
6	"			N.W by W.	N. by W.	2			30.03	59	57	52		"	"	9	"
7	"			"	"	2			30.05	59	58	53		"	"	9	"
8	"			West	"	2			30.05	61	58	53		"	"	8	"
9	"			S. by W.	N.N.E.	2			30.08	63	60	55		b.	Clear	10	"
10	"			"	"	2			30.10	65	61	66		"	"	10	"
11	"			S.W. by W.	"	2			30.12	65	63	67		"	"	10	"
Noon.	Ebb.			N.W.	"	2			30.12	66	64	67		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at p.m. " N 10° W ° '4 3½ W

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 49 " 1734 "

P. M.														
1	Ebb	N.W. by N.	N.W.	2	30.10	66	64	57	b.c.	air cum.	9	8
2	"	N.N.W.	"	3	30.10	66	65	57	"	"	9	"
3	"	N. by W.	West	3	30.09	66	65	57	"	"	9	"
4	"	North	"	3	30.09	67	65	59	"	"	9	"
5	"	N by N.	"	3	30.08	66	65	59	"	"	8	"
6	"	West	"	2	30.08	65	65	59	"	"	8	"
7	Flood	S.W.	"	2	30.08	65	65	60	"	"	8	"
8	"	S.W. by S.	"	2	30.08	65	65	60	"	"	8	"
9	"	S.W.	S.S.W.	3	30.08	65	65	59	"	"	7	"
10	"	"	"	3-4	30.08	64	63	58	b.s.q.	"	8	"
11	"	"	"	3-4	30.08	64	62	57	"	"	8	"
Mid.	"	S.W. by W.	"	3-4	30.08	64	61	56	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday September 30th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences E.S until 4 A.M.:
Clear E.S cool. Light to gentle breeze from N.N.W.
Strength of ebb at one o'clock 1.2 knots

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M:
Clear cool weather. Light breeze from N.N.W. E.S N. by W. Recd on board E.S issued to crew, 103¾ lbs. Fresh Beef 103¾ lbs Vegetables E.S 87 lbs Fresh Bread. At 4 commenced swinging E.S at 4:35 swing to flood.

B. T. Walling
Lieut U.S.N.

From 8 A.M. to Meridian:
Clear E.S pleasant. Light breeze from N.N.E. At 11:30 swing to ebb. At 9:30 Commander inspected ship with crew at quarters.

A. F. Fechteler
Lieut U.S.N.

From Meridian to 4 P.M.:
Clear E.S pleasant. Light to gentle breeze from N.W E.S West. At 3:30 strength of tide 0.3 knots

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M:
Clear E.S pleasant. Light breeze from West. At 7:30 swung to flood. By direction of Commander, placed F. Allen (P.M.) in double irons he having returned from liberty drunk.

A. F. Fechteler
Lieut U.S.N.

From 8 P.M to Midnight:
Clear E.S cool. Gentle to moderate breeze in puffs from S.S.W. At 11:30 slack water.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut. E.S Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Phemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N.W.	W.N.W.	3			30.09	60	60	57		b.c.	Cir cum.	8	8
2	"			N.N.W.	"	3			30.09	60	59	53		"	"	9	"
3	"			North	"	3			30.09	60	58	54		"	"	9	"
4	"			N by W.	"	3			30.09	60	58	54		"	"	9	"
5	"			"	"	3			30.11	59	57	53		b.	None	10	"
6	"			N.N.W.	N.N.W.	2			30.12	58	56	54		"	"	10	"
7	"			"	North	2			30.13	58	56	54		"	"	10	"
8	Flood.			West	"	2			30.14	59	57	54		"	"	10	"
9	"			S.W. by W.	"	2			30.14	60	58	54		"	"	10	"
10	"			S.W. by S.	"	2			30.14	61	60	55		"	"	10	"
11	"			"	N.N.W.	2			30.14	63	62	57		"	"	10	"
Noon.	"			S.W.	"	2			30.14	64	62	57		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 6.49 a.m. " NE×E ° 4' 21" W

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal ~~consumed~~ during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 119 " 834 "

P. M.														
1	Flood	S.W.	W.N.W.	2	30.16	67	66	59	b	Clear.	10	S
2	"	W.N.W.	"	2	30.16	67	66	59	"	"	10	"
3	Ebb.	N.W.	N.N.W.	2	30.15	66	65	58	"	"	10	"
4	"	"	"	2	30.14	66	65	59	"	"	10	"
5	"	"	"	2	30.13	66	64	59	"	"	10	"
6	"	"	"	2	30.13	65	64	58	"	"	10	"
7	"	N.N.W.	"	2	30.14	63	62	56	"	"	10	"
8	Flood	W.N.W.	"	2	30.15	63	62	56	"	"	10	"
9	"	W.S.W.	West	3	30.15	61	62	56	"	"	10	"
10	"	S.W.	"	3	30.15	60	61	55	b.s.	Cir cum.	9	"
11	"	S.W. by S.	"	2	30.15	60	60	55	"	"	9	"
Mid.	"	"	"	2	30.15	60	60	56	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday October 1st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear cool & pleasant. Gentle to mod. breeze from W.N.W. At 12:30 swung to ebb.

T. J. Fooner
Ensign U.S.N.

From 4 to 8 A.M:
Clear & pleasant. Light to gentle breeze from North to W.N.W. Ebb tide. Slack water at end of watch. Recd & issued to crew 83 lbs. fresh bread.

A. F. Fechteler
Lieut U.S.N.

From 8 A.M. to Meridian:
Clear & pleasant. Light breeze from North & N.N.W. At 9:30 went to general quarters. Examined magazine & shell-room flood-cocks & dry gun-cotton, & found them in good condition. Hemway Miller (sea) reported the expiration of his term of enlistment. By order of the Comdg Officer, released Frank Allen Pvt. U.S.M.C. from confinement he being sober. At 12 o'clock strength of flood tide 0.6 knot. Hoisted whaleboat in on forecastle.

W. W. Woggatt
Ensign U.S.N.

From Meridian to 4 P.M.:
Clear mild & pleasant weather. Light breeze from W.N.W & N.N.W. Sent Marine Guard ashore for target practice. Slack water at 1:30, swung to ebb at 2:15. Strength of tide at 3:45, 1.0 knot. Painter engaged in painting hammock-netting panels. Carpenters gang at work on steam cutter & whaleboat. Served out monthly money to crew. Drying gun-cotton primers.

T. J. Fooner
Ensign U.S.N.

From 4 to 8 P.M.:
Clear & pleasant. Light breeze from N.N.W. At 4:30 sent down t. g. yards & masts. Slack water at 7:30

W. W. Woggatt
Ensign U.S.N.

From 8 P.M. to Midnight:
Clear, cool & pleasant. Gentle decreasing to light breeze from West. At 9:15 finished swinging to flood.

T. J. Fooner
Ensign U.S.N.

Examined and found to be correct.

C. O. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Piemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.S.W.	S.W.	2			30.16	61	60	57		f.c.	air cum.	8	S
2	"			"	"	2			30.16	61	60	57		"	"	9	"
3	Ebb.			N.E.	"	2			30.15	60	60	57		"	"	8	"
4	"			N.N.E.	"	1			30.14	60	59	57		"	"	8	"
5	"			"	"	1			30.16	60	60	55		"	"	8	"
6	"			"	S. by E.	1			30.18	59	59	55		"	"	9	"
7	"			"	E.N.E.	1			30.20	60	58	56		"	"	9	"
8	"			North	"	1			30.21	60	59	56		b.c.	"	9	"
9	Flood			S.S.W.	Calm	0			30.23	61	60	57		b.c.z	"	9	"
10	"			"	S by W.	1			30.24	63	62	58		"	"	9	"
11	"			"	"	0			30.24	65	64	60		"	"	9	"
Noon.	"			"	South	1			30.22	65	64	59		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, tons 4 00 lbs.

Coal remaining on hand at Noon, 449 " 434 "

P. M.														
1	Flood	S by W.	S. by W.	1	30.20	68	65	60	b.c.	air cum.	9	S
2	"	S.W.	West	2	30.19	68	67	61	"	"	9	"
3	"	West	W.N.W.	2	30.18	68	67	59	"	"	9	"
4	Ebb	N.W by W.	"	2	30.18	68	67	61	"	"	9	"
5	"	North	N.W.	2	30.17	68	67	61	"	"	9	"
6	"	N. by W.	W by S.	3	30.19	66	66	61	"	"	8	"
7	"	"	"	2	30.19	66	65	61	"	"	8	"
8	Flood	West	W.N.W.	1-2	30.20	66	65	61	"	"	9	"
9	"	S.S.W.	"	1	30.22	67	65	61	"	"	9	"
10	"	"	"	1	30.23	67	64	60	"	"	9	"
11	"	"	N.W.	1	30.22	66	64	58	"	"	9	"
Mid.	"	S.W. by S.	"	2	30.22	64	63	58	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday October 2nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:

Clear, cool & pleasant. Light airs to light breezes from S. W. Slack water at 3:00 & swung to the ebb tide. Moon rose at 1:55.

C. S. Craig
Naval Cadet U. S. N.

From 4 to 8 A. M:

Clear & pleasant. Light airs from S. W. & E. N. E. Recd & issued to crew 103¾ lbs fresh beef, 103¾ lbs. fresh vegetables & 83 lbs fresh bread. At 7:45 sent up t. g. yards & masts.

W. S. Hoggatt
Ensign U. S. N.

From 8 A. M. to Meridian

Clear cool & pleasant - light dry haze overland - Light breeze from S. by W. & South. Ship swinging to flood at 8:00 - riding to flood at 9:00. Current at Noon 1.6 knots. At 8:45 Lieut. A. F. Fechteler & Ensign F. J. Loomis left the ship on leave of absence for six days. Exposed 9th discs of "dry gun-cotton" for drying. At 9:30 mustered & inspected at quarters. Exercised 1st Div. at great guns - 2nd Div. at great guns: transporting. Shifted No 3 port gun to No 3 starboard port in 1m 10 sec. At 10:10 assembled battalion, in light marching order, & ex. marching.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear & pleasant. Light airs from S. W. first hour, light breezes from West & N. N. W. remainder of watch. Slack water at 3:00 Ship swinging to the ebb at end of watch. At 1:30 the sailing launch with crew left the ship for exercise at target practice with 12 pdr. boat howitzer Carpenters gang at work on whale boat. Sent small liberty party ashore. A Korean steamer came out of the inner harbor & came to an anchor.

C. S. Craig
Naval Cadet U. S. N.

From 4 to 8 P. M.:

Clear cool & pleasant - light to gentle breeze from N by S. Ship riding to ebb at 4. Slack water low at 7:40. At 4:20 sailing launch returned from target practice & exercise. Expended in Ord. Dept. 10 - 12 oz charges & bags, 7 - 12 pdr. Shrapnel, 3 - 12 pdr canister & 20 primers. Secured launch at port boom. Liberty party returned. Herman Miller (sea) whose term of service expired the 1st inst. left the ship. At 4:35 sent down t gilt yards.

C. D. Galloway
Lieut U. S. N.

From 8 P. M to Midnight:

Clear cool & pleasant. Light airs to light breezes from W. N. W. & N. W. Flood tide. Strength of flood current at end of watch 1.3 knots

C. S. Craig
Naval Cadet U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shemulpo, Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S. by W.	N. W.	2			30.20	63	62	58		b.c.	cir cum.	9	S
2	"			"	"	2			30.20	63	62	58		"	"	9	"
3	"			South	"	2			30.20	62	62	57		"	"	9	"
4	Ebb.			N. E. by E.	"	2			30.18	61	61	57		"	"	9	"
5	"			N. by E.	N. N. E.	2			30.20	61	60	57		b. z.	Clear	10	"
6	"			"	E. N. E.	2			30.22	60	59	56		"	"	10	"
7	"			N. N. E.	"	2			30.23	60	59	56		"	"	10	"
8	"			N. by E.	"	2			30.24	60	59	56		"	"	10	"
9	Flood			S. S. E.	"	1			30.26	63	61	58		"	"	10	"
10	"			S by W.	Calm	0			30.28	66	64	59		"	"	10	"
11	"			S. S. W.	S. W.	1			30.29	68	66	60		"	"	10	"
Noon.	"			"	"	1			30.29	69	67	60		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 1300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 12000 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 49 " 34 "

P. M.														
1	Flood	S. S. W.	W. S. W.	1		30.23	70	68	62		b.c.	Cum. Strat.	9	S
2	"	"	West	2		30.21	71	70	64		"	"	9	"
3	"	"	"	2		30.20	71	71	65		"	"	9	"
4	"	"	W. N. W.	2		30.20	72	72	65		"	"	9	"
5	Ebb.	North	"	2		30.19	70	69	64		"	"	9	"
6	"	"	"	2		30.19	70	69	64		"	"	9	"
7	"	N by W.	"	2		30.19	67	66	62		"	"	9	"
8	"	"	"	2		30.19	67	66	62		"	"	9	"
9	Flood	S W by W	"	1		30.21	66	65	61		"	"	9	"
10	"	S. S. W.	S. W.	1		30.22	66	65	61		"	"	9	"
11	"	S by W.	"	1		30.22	65	65	60		"	"	9	"
Mid.	"	"	"	1		30.22	66	65	60		"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday October 3d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear cool weather. Light breezes from N.W. At 3:30 commenced swinging to ebb. Flood current 1.3 Knots. Moon rose at 3:45

B.G. Wasring
Lieut U.S.N.

From 4 to 8 A.M.:
Clear & cool. Light breezes from N.N.E. & E.N.E. Light haze overland. Ships riding to ebb until 7:15, swinging to flood at 8:00. Current at 7:00, 1.2 Knots Recd in Pay Dept. 82 lbs of fresh bread. At 7:35 sent up topt yards

C.D. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian:
Clear, hazy & pleasant. Calms, & light airs from E.N.E & S.W. At 9:00 swung to the flood tide. Drift of flood at Noon 1.4 Knots. At 8:50 the Nav. Div. left the ship for target practice with small arms on Roze Island. By order of Comdg Officer released J.G. Richards (OS) from confinement, his time of punishment having expired. At 9:20 went to quarters & exercised 1st & 2nd Divs. at great guns, 3d & Powder at pistol drill, & Marines at skirmish drill. Transported No 1 gun (port) to port No 4, starboard & No 2 gun (port) to No 7 starboard. Time 1 Minute. Discovered a leak in starboard copper of galley, took it out for repairs & found bottom pitted badly, there being two holes 1/4 in. in diameter, clear through the bottom near the drain-cock, & several smaller ones.

C.A. Craig
Naval Cadet U.S.N.

From Meridian to 4 P.M.:
Clear pleasant weather. Light airs from W.S.W. Light breezes from West & W.N.W. Third Division left the ship for target practice. Navigators Division returned from target practice. Flood current 1.4 Knots. At. 3:45 commenced swinging to ebb.

B.G. Wasring
Lieut U.S.N

From 4 to 8 P.M.:
Clear & pleasant. Light breezes from W.N.W. At. 4:40 sent down topgallant yards & bent royals & flying jib. Replaced copper in galley. At 4:50 swung to the ebb tide. Strength of current at end of watch 0.7 knot. By order of Comdg Officer, rated R. Doyle (C.K.) to 2nd class fireman from Oct. 1st

C.A. Craig
Naval Cadet U.S.N.

From 8 P.M. to Midnight:
Clear & cool. Light airs from W.N.W. & S.W. At 8:45 commenced swinging & at 9:10 swung to flood.

B.G. Wasring
Lieut U.S.N.

Examined and found to be correct.

C.D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S. by W.	Calm	0			30.20		64	64	62	b	None	10	S
2	"			"	East	1			30.19		64	64	62	"	"	10	"
3	"			"	E.S.E.	1			30.19		64	63	61	"	"	10	"
4	"			South	S.E.	2			30.17		63	62	60	b.c.	Str.	8	"
5	Ebb			N.E. by E.	"	1			30.17		63	62	60	"	"	8	"
6	"			N by E.	E.S.E.	1			30.17		63	62	60	"	"	7	"
7	"			N.E by N.	"	2			30.17		63	62	60	"	"	7	"
8	"			N.E.	"	2			30.17		63	63	60	"	"	7	"
9	Flood			East	South	2			30.21		66	64	62	"	Cir. Cum.	8	"
10	"			S by E.	"	2			30.22		67	65	62	"	"	9	"
11	"			"	"	2			30.22		68	67	64	"	"	9	"
Noon.	"			South	S.W.	2			30.21		69	68	65	"	"	8	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 48 " 1874 "

P. M.														
1	Flood		S.S.W.	S. S. W.	2			30.20	70	69	64	b.s.	Cir. Cum.	8	S.
2	"		S by W	S.W. by W.	3			30.18	70	69	64	"	"	8	"
3	"		S.S.W.	"	3			30.16	72	72	67	"	"	7	"
4	"		"	W. by W.	3			30.15	72	72	67	"	"	7	"
5	Ebb		West	W.S.W.	2			30.13	70	70	65	"	"	4	"
6	"		North	West	2			30.12	69	69	65	"	"	2	"
7	"		"	"	2			30.11	68	68	64	"	"	6	"
8	"			"	2			30.11	68	69	64	"	"	6	"
9	"		N by W.	"	2			30.11	69	69	64	"	"	7	"
10	Flood		S.W. by S.		2			30.11	69	69	64	"	"	7	"
11	"		S.S.W.	S. W.	2			30.12	68	68	64	"	"	6	"
Mid.	"		S by W.	S.S.E.	1			30.12	68	68	64	"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday October 4th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced & until 4 A.M:
Clear & pleasant. Calm, & light airs from East to S.E.

M.B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.:
Clear & pleasant. Light airs to light breezes from S.E. to E.S.E. Swung to the ebb tide at 5:00. At 7:30 crossed topgallant & royal yards, & loosed sails to a bowline. Recd on board in Pay Dept. 81 lbs fresh bread, 101¼ lbs fresh beef & 101¼ lbs fresh vegetables. Hoisted out whale-boat.

G.S. Craig.
Naval Cadet U.S.N.

From 8 A.M. to Meridian:
Clear, pleasant weather. Light breezes from South. At 9:30 beat to general quarters. Exercised at transporting broadside guns & shifting pivot. At 10:15 called all hands shorten sail & had sail exercise. At 9:00 commenced swinging & at 9:50 swung to flood.

B.R. Wadleigh
Lieut. U.S.N.

From Meridian to 4 P.M.:
Clear & pleasant. Light to gentle breeze from S.S.W. & W.S.W. At 1: strength of flood 1.3 knots. Put on yard, mast & top covers. Sent Enguire Div. in charge of Naval Cadet Craig ashore for target practice with rifles. Started fires in boilers 2 & 4 at 2 P.M. for distilling.

M.B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.:
Clear pleasant weather. Light breezes from W.S.W. & West. At 4:30 commenced swinging & at 5:10 swung to Ebb. Ebb current 1.5 knots. At 5:30 sent down topgallant & royal yards. Unbent royals & flying jib.

B.R. Wadleigh
Lieut U.S.N.

From 8 P.M to Midnight:
Partly clear, pleasant. Light airs from West & S.S.E. Began swinging to flood at 9:15. Distilling.

M.B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

E.K. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.S.W.	S.S.E.	1			30.12	67	66	63		b.c.	Cir Cum	1	1
2	"			S.W.	"	2			30.11	67	66	64		"	"	3	"
3	"			"	"	2			30.10	67	66	64		"	"	4	"
4	"			South	"	2			30.08	67	65	64		"	"	4	"
5	"			"	S.E.	3			30.06	66	65	63		"	"	3	"
6	"			N.by E.	"	3			30.04	65	64	62		"	"	3	"
7	"			N.N.E.	"	3			30.04	65	63	61		"	"	3	"
8	"			N.E.by E.	"	3			30.04	65	63	61		"		3	"
9	Ebb			N.E.	"	3			30.06	67	65	63		"	"	3	"
10	Flood			South	"	2			30.06	68	65	63		"	"	3	"
11	"			S.by W.	S.by W.	2			30.06	68	66	64		0.q.	Cum Nim	0	"
Noon.	"			"	"	2			30.05	68	67	64		0.c.v.	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1200 "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 2 tons 150 lbs.

Coal remaining on hand at Noon, 46 " 1724 "

P. M.									
1	Flood	S by W.	S.S.W.	30.05	68	67	64	s.c.r.p.	Cum Nim.	0	5
2	"	"	"	30.02	68	67	64	b.c.r.p.	"	1	"
3	"	S.S.W.	W.S.W.	30.00	68	67	64	p.c.r.p.	"	2	"
4	"	"	S.W.	29.99	67	67	64	p.r.p.	"	2	"
5	"	"	S.W.by S.	29.99	67	67	63	b.c.s.	Cir Cum & Nim.	3	"
6	Ebb	W.S.W.	West	30.00	68	67	63	s.c.	"	3	"
7	"	South	"	30.00	69	68	64	"	"	5	"
8	"	"	"	30.00	68	68	64	b.c.l.	"	7	"
9	"	"	W.N.W.	30.00	68	68	64	b.c.	Cir Cum	7	"
10	"	N by W.	"	30.00	67	66	63	"	"	7	"
11	Flood	W.S.W.	N by W.	29.99	65	66	63	"	"	7	"
Mid.	"	South.	N.N.W.	29.99	65	66	63	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday October 5th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Generally cloudy; cool & damp. Light to gentle breeze from S.S.E. Tide flood, current 1.6 knots. Distilling.

C.D. Galloway
Lieut. U.S.N.

From 4 to 8 A.M.:
Cloudy pleasant weather. Gentle breeze from Sr. Reid on board & issued to crew, 102 lbs fresh beef, 102 lbs fresh vegtables & 82 lbs. fresh bread. At 7:00 crossed to gallant yards.

B.T. Walling
Lieut U.S.N.

From 8 A.M. to Meridian:
Clear & pleasant with thunder to N. & W. third hour & rain last hour. Light to gentle breeze from S.E. to S by W. Sent part of 1st Div. in charge of Lieut. Walling, ashore for target practice with rifles. At 9:30 mustered crew at quarters, then exercised 2nd 3d, Powder & Navigators Divisions with single-sticks, & Marines at bayonet exercise. The Senior Officer assigned the following punishments: Wm Ramge (sea) for disrespect to an officer, 5 days confinement in double irons, W.P. Murray Boiler Maker & M. Fitzgerald (S.H.) for disobedience of orders, in obtaining liquor, were placed on the restricted list for three months from this date. F. Smith (S. & S.) returned from target practice under the influence of liquor, & by order of the Senior Officer was placed under the sentry's charge to sober. Strength of ebb at 11:45 1.3 knots. Distilling.

W.W. Stoggatt
Ensign U.S.N.

From Meridian to 4 P.M.:
Cloudy & mild with almost continuous light rain with passing showers. Light breezes from S.S.W. & W.S.W. Ship riding to strong flood tide during watch. Current at 2 o'clock 2.2 knots. Expended one Dinghy oar broken in use. Distilling. At 1:00 sent liberty party ashore.

C.D. Galloway
Lieut. U.S.N.

From 4 to 8 P.M.:
Clearing weather. Light passing showers first hour. Lightning to N. last two hours. Light to gentle breeze from S.W. by S. to West. Swung to ebb at 6:10. Strength of ebb at 7:30 1 knot. Distilling.

W.W. Stoggatt
Ensign U.S.N.

From 8 P.M. to Meridian:
Clear cool & pleasant - light airs from W.N.W. & N.N.W. Slack water at 10:45. Riding to flood tide at 11:00 At 10:30 the tanks being full, stopped distiller & hauled fires in boilers 2 & 4. At 10:45 observed a brilliant meteor to the N.E.

C.D. Galloway
Lieut U.S.N.

Examined and found to be correct.

C.D. Galloway
Lieut U.S.N. & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.S.W.	W.N.W.	2			29.99	65	64	62		b.s.	Cir Cum.	8	S
2	"			"	"	2			29.98	65	64	62		"	"	7	"
3	"			S.W by S.	"	3			29.98	65	64	62		"	"	8	"
4	"			"	"	3			29.99	65	64	62		"	"	8	"
5	"			"	"	3			30.01	63	61	56		"	"	9	"
6	Ebb			N.N.E.	N.N.E.	2			29.99	62	60	56		"	"	9	"
7	"			N by E.	"	1			30.00	63	60	55		"	"	9	"
8	"			"	N.N.E.	1			30.01	63	61	56		"	"	9	"
9	"			"	North	1			30.03	62	59	53		"	Cum.	9	"
10	"			North	"	1			30.05	62	61	54		"	"	9	"
11	"			North	"	1			30.05	63	62	55		"	"	9	"
Noon.	Flood.			S by E.	N by E.	1			30.05	67	67	60		"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° 4 ′ 30″ W

Variation of the Compass by Azimuth ⊙ observed at 5.15 P.m. " S 28° W ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 900 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, tons 2020 lbs.

Coal remaining on hand at Noon, 45 " 1944 "

P. M.														
1	Flood	S by W.	N by E.	1	30.03	70	70	61	b.s.	Cir Cum.	9	S.
2	"	S.S.W.	"	1	30.03	71	71	62	"	"	9	"
3	"	"	West	2	30.00	71	71	62	"	"	9	"
4	"	"	"	2	29.97	69	70	61	"	"	9	"
5	"	"	"	2	29.98	69	67	60	"	"	9	"
6	Ebb	S.W. by S.	W.N.W.	2	29.98	69	67	60	"	"	9	"
7	"	N. by W.	"	2	29.99	68	65	60	"	"	8	"
8	"	"	N.W.	3	29.99	67	65	60	"	"	8	"
9	"	N.N.E.	"	1	29.99	66	64	60	"	"	8	"
10	"	North	"	1	30.00	66	64	60	"	"	8	"
11	"	N.W. by N.	West	1	30.00	65	64	60	"	"	8	"
Mid.	Flood	S by W.	"	1	30.00	64	63	60	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday October 6th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear & cool. Light to gentle breezes from W.N.W. Flood tide.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 A.M.:
Clear & pleasant. Light airs to gentle breeze from N.N.E to W.N.W. Strength of ebb at 7, 1.4 knots. Read & issued to crew, 87 lbs. bread. At 7:50 loosed sails to a bowline.

W. F. Haggatt
Ensign U.S.N.

From 8 A.M. to Meridian:
Clear & pleasant. Light airs from North. Low water at 10:30 - riding to flood at 11 - At 11:10 furled sails. Aired bedding. By order of Senior Officer released F. Smith (Col'd P.) from sentry's charge, he being fit for duty.

T. D. Galloway
Lieut. U.S.N.

From Meridian to 4 P.M.:
Clear & pleasant. Light airs to light breezes from N.E. & West. The Japanese Consul of Shemulpo called on the ship. Flood tide. Strength of current at 3:00, 2 knots. At 12:55 exercised at fire-quarters.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 P.M.:
Clear, cool & pleasant. Light breezes from W.N.W. & N.W. Slack water high at 5:40, swinging to ebb at 6:00 riding to ebb at 6:30. Liberty party returned.

T. D. Galloway
Lieut. U.S.N.

From 8 P.M to Midnight:
Clear & cool. Light airs from N.W. & West. Slack water at 11:00 & swung to the flood tide.

C. S. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

T. D. Galloway
Lieut. U.S.N. & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			South	West	2			30.00	64	63	60		b.s.	cir cum.	8	8
2	"			S. by W.	E by S.	2			29.97	62	61	58		"	"	8	"
3	"			"	"	2			29.95	61	60	57		"	"	8	"
4	"			"	"	2			29.94	61	60	57		"	"	8	"
5	"			"	S. E.	2			29.94	61	60	57		"	"	8	"
6	"			South	"	2			29.96	61	60	57		b.s.z.	"	7	"
7	Ebb			N. N. E.	E. S. E.	2			29.98	62	60	57		"	"	7	"
8	"			"	"	2			29.99	64	61	59		"	"	7	"
9	"			"	S. E.	2			29.99	64	62	60		"	"	7	"
10	"			N. E. by N.	"	2			29.99	64	63	59		"	"	7	"
11	"			"	South	2			29.99	65	64	60		"	"	7	"
Noon.	Flood			"	"	1			29.98	65	65	61		"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 45 " 1544 "

P. M.																
1	Flood		S. S. W.	South	2			29.96	66	65	61		b.s.	cir cum.	4	8
2	"		"	S. W.	2			29.94	66	65	61		"	"	6	"
3	"		"	"	2			29.93	68	67	62		"	"	6	"
4	"		"	"	2			29.91	67	67	62		"	"	7	"
5	"		"	West	2			29.89	67	67	62		"	"	7	"
6	"		S. by W.	"	2			29.89	66	66	61		"	"	7	"
7	Ebb.		W. N. W.	"	2			29.88	65	64	61		"	"	7	"
8	"		N. by E.	"	2			29.88	65	65	61		"	"	7	"
9	"		N. E. by N.	N. W.	1			29.90	65	65	61		"	"	9	"
10	"		North	"	1			29.91	65	64	61		"	"	9	"
11	"		"	"	1			29.91	65	64	61		"	"	9	"
Mid.	"		N. E. by N.	"	1			29.91	64	63	60		"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday October 7th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M:
Clear pleasant weather. Light breezes from West & E by S. with calms. Riding to the flood. Flood current 2.1 knots Distilling.

B. F. Walling
Lieut U.S.N.

From 4 to 8 A.M:
Fair cool & pleasant; hazy over land. Gentle breezes from S. E & E. S. E. Slack water high at 6:30; riding to ebb at 6.40 current at 6:50, 1.6 knots. Recd for issue to crew 87 lbs fresh bread. 102½ lbs of fresh beef & 102½ lbs of vegetables.

E. D. Galloway
Lieut U.S.N.

From 8 A.M to Meridian:
Fair & pleasant, cloudy latter part of watch Light breezes to light airs from S. E & South. At 9:30 went to quarters & Comdg Officer inspected the ship & crew. After inspection called "All hands to muster" & read the Articles for the better government of the U.S. Navy, & General Court Martial order No. 5. Slack water at 11:30 & swung to the flood tide. Geo A. Mitchell (1st Sergeant) left the ship on five days leave.

C. A. Craig.
Naval Cadet U.S.N.

From Meridian to 4 P.M:
Clear pleasant weather. Light breezes from South & S.W. Riding to the flood. Flood currents two knots. Distilling

B. F. Walling
Lieut. U.S.N.

From 4 to 8 P.M:
Clear & pleasant. Light breeze from West. Slack water at 7:00 & swinging to the ebb tide. Lieut. A. F. Fechteler & Ensign F. J. Loomis reported their return from leave. By order of Comdg Officer, placed A. Hansen (1 C.F.) under sentry's charge to await investigation

C. A. Craig.
Naval Cadet U.S.N.

From 8 P.M. to Midnight:
Clear pleasant weather. Light airs from N.W. Riding to the ebb. Ebb current 2. knots

B. F. Walling
Lieut U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut. and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			South	East	1			29.91	62	62	59		b.	None	10	8
2	"			"	"	2			29.91	61	60	57		"	"	10	"
3	"			S. by W.	"	2			29.90	60	59	57		"	"	10	"
4	"			"	"	2			29.89	60	59	57		"	"	10	"
5	"			"	"	2			29.89	60	59	57		"	"	10	"
6	"			"	"	2			29.90	60	59	57		b.s.z.	cir cum.	9	"
7	"			South	"	2			29.90	60	59	57		"	"	9	"
8	Ebb.			N. by E.	E. N. E.	2			29.90	61	60	58		"	"	9	"
9	"			"	"	2			29.92	62	61	58		b.	Clear.	10	"
10	"			"	"	2			29.93	63	61	59		"	"	10	"
11	"			North	"	2			29.94	65	62	60		"	"	10	"
Noon.	"			"	"	2			29.94	65	63	61		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 45 " 1144 "

P. M.														
1	Flood		S. S. W.	E. N. E.	2		29.94	66	63	61	b.s.	cir cum.	9	8
2	"		"	"	2		29.91	67	66	61	"	"	9	"
3	"		S. by W.	"	1		29.91	69	67	61	"	"	9	"
4	"		"	"	1		29.91	70	68	63	"	"	9	"
5	"		S. S. W.	West	2		29.89	70	69	65	"	"	9	"
6	"		"	"	2		29.88	68	88	64	"	"	9	"
7	"		"	"	2		29.88	67	67	64	"	"	9	"
8	Ebb		N. W.	"	2		29.90	67	66	63	"	"	9	"
9	"		"	N. W.	2		29.94	67	66	63	b.c.l.	"	8	"
10	"		N. E.	"	2		29.95	67	66	63	"	"	7	"
11	"		"	N. E.	2		29.97	66	65	63	"	"	8	"
Mid.	"		"	"	12		29.99	66	65	63	"		9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday October 8th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear & cool. Light airs & light breeze from East. Flood tide. Strength of flood at 3:00 A.M. 1.6 knots.

A. F. Fechteler
Lieut U.S.N.

From 4 to 8 A.M:
Clear & pleasant. Hazy over the land. Light breeze from East. Recd on board in pay dept. for issue to the crew 87 lbs fresh bread. At 6:45 the mail steamer "Tsuruga Maru" came into the harbor. At 7:50 loosed sail to a bowline. Slack water at 7:00 & swung to the ebb tide.

C. A. Craig.
Naval Cadet U.S.N.

From 8 A.M to Meridian:
Clear pleasant weather. Light breezes from E.N.E. At 9:30 beat to General Quarters - ready in 3m. Secured in 4m Mr H. A. Dinsmore, U.S. Minister to Korea visited the ship - At 11:10 furled sails. Riding to ebb. Ebb current 0.9 knot. Absent without leave G. Campbell (B.M) G. Saunders (S.Yop.) W.B. Emerson (S.H.) & Saml. Kendricks (oiler) By order of Comdg Officer, confined H. Lyndon (sea) in double irons for two days for absence without leave. Tested Magazine & Shell-room flood cocks & found them in good condition.

B. T. Walling
Lieut U.S.N.

From Meridian to 4 P.M:
Clear & pleasant. Light airs & light breeze from E.N.E. Flood tide. Strength of flood at end of watch 2.2 knots.

A. F. Fechteler
Lieut U.S.N.

From 4 to 8 P.M:
Clear pleasant weather. Light breeze from West. Riding to flood, flood current 2.2 knots. A. Campbell returned on board 16 hrs. overtime. J. Nobriga (Lds) was confined in double irons for returning from liberty drunk & disorderly, until further orders, by order of Comdg. Officer.

B. T. Walling
Lieut U.S.N.

From 8 P.M to Midnight:
Clear & pleasant. Light breeze from N.W. to N.E. Ebb tide. Slack water at end of watch. By direction of Comdg Officer placed S. Kendricks (oiler) & G. Saunders (S.Yop) under sentry's charge, they returning from liberty drunk.

A. F. Fechteler
Lieut U.S.N.

Examined and found to be correct.

C. E. Calloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo, Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			South	E.N.E.	1			29.98	64	63	61		b.f.	Clear	10	3
2	"			"	"	1			29.98	64	63	61		b.f.l	"	10	"
3	"			S. by W.	"	1			29.98	64	62	61		"	Cum.	5	"
4	"			"	North	1			29.99	64	62	61		o.c.p.t.	Nimb.	0	"
5	"			"	S.E.	2			29.99	64	62	61		b.c.p.t.	"	5	"
6	"			South	"	2			30.00	64	62	60		b.f.	"	3	"
7	"			"	"	2			30.00	64	61	59		"	Cir Cum.	6	"
8	"			S. by E.	S.S.E.	2			30.01	65	62	60		"	"	6	"
9	Ebb			N.N.E.	S.E.	3			30.01	66	64	61		"	"	6	"
10	"			N.E.	"	3			30.03	67	65	63		"	"	6	"
11	"			N.E. by N.	"	2			30.03	68	68	65		"	"	5	"
Noon.	"			N.E.	"	2			30.03	67	68	65		"	"	5	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 145 " 744 "

P. M.														
1	Flood.		S by E.	S.W.	2		30.04	70	69	67	b.c.	Cum	5	S
2	"		S. by W.	"	2		30.02	70	69	67	"	"	4	"
3	"		S.S.W.	"	3		30.01	70	69	67	"	"	3	"
4	"		"	W.N.W.	3		30.01	70	69	66	o.c.	"	0	"
5	"		"	"	2		30.01	69	67	65	"	"	0	"
6	"		North	N.W.	2		30.01	68	68	66	"	"	0	"
7	"		"	North	2		30.01	68	67	65	b.c	"	2	"
8	"		"	"	2		30.01	68	67	65	"	"	5	"
9	Ebb		N.W.	"	2		30.01	68	67	65	"	"	5	"
10	"		N. by W	N.W.	2		30.01	67	66	64	"	"	5	"
11	"		N by E	N.N.W.	2		30.02	66	65	63	"	"	5	"
Mid.	"		"	"	2		30.02	66	65	63	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday October 9th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear first part, then clouding over towards end of watch, with passing showers. Light airs from E.N.E & North. Young to flood at 1 A.M.

W B Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.:
Partly cloudy weather, with passing showers first hours. Light breeze from S.S.E & S.E. Read on board & issued to crew 102 lbs fresh beef, 102 lbs fresh vegetables & 82 lbs fresh bread. "Tsuruga" Maru went to sea. At 7:30 sent up topgallant masts & crossed topgallant yards. Riding to the flood.

D. F. Walling
Lieut. U.S.N.

From 8 A.M to Meridian:
Fair & pleasant. Ebb tide. Slack water at end of watch. Light to gentle breeze from S.E. At 9:30 inspected at quarters, then formed the battalion with light infantry equipments & exercised at battalion drill. G. Sanders (S Top) & S. Kendricks (Cier) & J. Noriga (Las) were released from confinement by direction of Comdg Officer, they being sober.

A. F. Fechteler
Lieut. U.S.N.

From Meridian to 4 P.M.:
Overcast & cool. Light to gentle breeze from S.W to W.N.W. Fired 20 rounds from 60 pdr. range finder. Young to flood at 1. Strength of flood at 3:30, 1.7 knots. Expended 40 rounds cal. 50 cartridges. for 60 pdr. range finders at ~~target~~ practice.

W B Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.:
Generally overcast & cloudy. Light breeze from North & N.W. Flood tide. Slack water at end of watch. At 4:30 sent down topgallant yards.

A. F. Fechteler
Lieut. U.S.N.

From 8 P.M to Midnight:
Partly clear, pleasant. Light breeze from North to N.W.

W B Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut. / Navigator.

LOG of the UNITED STATES Ship Essex, 3d Rate,

Moored in the Harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Slack			N. W.	N.N.W.	3			30.01	65	63	60		b. s.	Cumo	4	S
2	Flood.			S. W.	"	3			30.01	65	63	60		"	"	2	"
3	"			S. S.W.	"	3			30.01	65	63	60		"	"	4	"
4	"			"	"	3			30.00	64	63	59		"	"	5	"
5	"			S. W.	"	2			30.00	63	62	57		"	"	5	"
6	"			"	"	1			29.99	62	61	58		"	"	1	"
7	"			"	North	1			29.99	62	61	58		"	"	5	"
8	"			S.W. by S.	"	1			29.99	63	60	59		"	Cir Cumu	6	"
9	Ebb.			N. by W.	N. W.	2			29.98	62	61	57		"	"	5	"
10	"			North	"	3			29.98	63	62	57		"	"	3	"
11	"			"	"	3			29.98	63	61	57		O.A.N.	cumo nim	0	"
Noon.	"			"	"	3			30.00	62	60	56		b.s.N.	"	2	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 45 " 344 "

P. M.													
1	Ebb	N.W. by W.	W.N.W.	3	29.98	62	60	55	f.c.g.	Cir Cumu	7	S	
2	"	W.N.W.	"	3	29.97	64	62	57	"	"	5	"	
3	Flood	N.W.	"	4	29.95	63	62	57	"	Cumo Nim.	4	"	
4	"	S.W. by S.	"	4	29.95	63	62	57	"	"	5	"	
5	"	"	"	4	29.95	63	61	57	f.g.	Cumo	7	"	
6	"	"	"	3	29.95	63	60	57	"	"	6	"	
7	"	"	"	3	29.95	62	60	57	"	Cir Cumu	6	"	
8	"	"	"	3	29.94	62	60	56	"	"	7	"	
9	Ebb	W.N.W.	"	2	29.96	60	59	54	"	"	7	"	
10	"	North	"	2	29.97	59	58	53	"	"	7	"	
11	"	"	"	2	29.97	59	57	53	"	"	4	"	
Mid.	"	"	"	2	29.98	59	58	55	"	"	3	"	

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday October 10th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Fair. Gentle breeze from N.N.W. At 2:00 swung to flood.

F. J. Soomis
Ensign U.S.N.

From 4 to 8 A.M.:
Generally fair & pleasant. Light airs to light breeze from North & N.N.W. Flood tide. Strength of flood at 5:00 1.5 knots. Crossed topgt yards. Recd & issued to crew 81 lbs fresh bread.

C.S. Galloway
Lieut. U.S.N.

From 8 A.M. to Meridian:
Partly clear first part; overcast with light rain last part. Light to gentle breeze from N.W. Swung to ebb at 9. A.M. At 9:30 inspected crew at quarters. At 9:35 called away all boats for distant service & exercised them under sail by signals from the ship. Marines exercised at skirmish drill. By order of Comdg Officer released W. Agnew (sea) from confinement, his term having expired. By order of the Comdg Officer, removed hand irons from H. Lyndon (sea) on recommendation of Surgeon. Strength of flood at 12 o'clock 0.5 knots

W.B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.:
Fair & cool weather. Heavy cum & nimb. clouds to Sd & Wd. Gently increasing to moderate breeze from N.N.W. Stiff squalls at times. Engaged in fitting new fore lofgallant foot rope & stern jacob's-ladder. Sailmakers' mate repairing f.t.m. staysail & Carpenter's gang repairing pin-rail. Powder Div. firing with range-finder in 60 part. Expended 75 rounds of 50 cal. cartridges. Slack water at 1.00 Riding between wind & flood remainder of watch. Served out small stores.

F. J. Soomis
Ensign U.S.N.

From 4 to 8 P.M.:
Partly clear cool. Mod. & light breeze from W.N.W. W.B. Emerson (C.H.) was brought off by police of ship, 3 days & 2 hrs. overtime. Slack water at 7:30

W.B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight:
Fair & cool. Light breeze from W.N.W. Strength of ebb at 10:30, 1.3 knots. Swung to ebb at 8:40. Moon set at 9:15

F. J. Soomis
Ensign U.S.N.

Examined and found to be correct.

C.S. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo, Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N. by E.	N.N.W.	3			29.99	59	57	56	O.S.		cum nim.	2	S
2	"			N.W. by W.	North	1			29.97	57	57	55	o.c.q.f.v.		"	2	"
3	Flood			W.S.W.	"	4			29.97	56	56	54	"		"	2	"
4	"			S.S.W.	W.N.W.	2			29.97	56	56	54	b.s.q.			8	"
5	"			"	S.W. by W.	2			29.98	58	56	55	b.s.		cir. cum.	5	"
6	"			"	"	2			29.99	58	56	56	"		cum.	5	"
7	"			"	"	2			30.02	60	58	55	"		"	4	"
8	"			South	S.E. by E.	2			30.03	59	57	57	"		"	4	"
9	"			"	West	2			30.04	61	59	55	"		"	6	"
10	Ebb			N.W.	"	2			30.06	61	60	57	"		"	7	"
11	"			"	"	3			30.07	62	61	57	"		"	7	"
Noon.	"			"	"	3			30.08	64	62	58	"		"	8	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 44 " 1184 "

P. M.											
1	Ebb	N. by W.	West	3	30.07	65	63	58	b.c.	cir. cum.	7	S
2	Flood	W. by S.	W.N.W.	3	30.07	64	63	57	"	"	7	"
3	"	S.W.	"	3-4	30.07	66	65	59	b.c.q.	"	7	"
4	"	S.W. by S.	"	3-4	30.07	66	65	60	"	"	7	"
5	"	"	West	3	30.05	65	65	59	b.s.	"	9	"
6	"	S.S.W.	"	3	30.05	65	65	59	"	"	9	"
7	"	"	"	2	30.04	63	63	58	"	"	9	"
8	"	"	"	2	30.04	63	63	58	"	"	9	"
9	"	S. by W.	"	1	30.05	64	64	58	"	"	9	"
10	"	"	"	2	30.06	64	63	58	"	"	9	"
11	Ebb	N.W.	S.W.	3	30.06	64	62	57	b.c.q.	"	9	"
Mid.	"	"	"	4	30.08	64	62	57	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday October 11th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.:
Overcast and cloudy, clearing towards end of watch. Squally with heavy showers of rain from 1:00 to 3:00. Light airs to moderate breezes from N.N.W., North and W.N.W. Slack water at 3:00 and swung to the flood tide. Lightning to the Sd. and Wd.

C. D. Craig
Naval Cadet U.S.N.

From 4 to 8 A.M:
Partly clear, pleasant. Light breeze from S.W by W. to S.E. by E. blowing in puffs. At 7:30 strength of flood 1.3 knots. Reed and issued to crew 107½ lbs. each of fresh beef and vegetables and 87 lbs fresh bread. At 7:30 crossed t.g. yards and loosed sail to a bowline.

W. L. Goggatt
Ensign U.S.N.

From 8 A.M to Meridian:
Cloudy, increasing to clear weather. Light increasing to gentle breeze from West. Slack water at 8:30. Swung to ebb at 9:15 At 9:35 mustered and inspected at quarters. Private Sonety U.S.M.C. absent without leave. Exercised at shifting topsails; afterwards furled sail.

F. J. Coombs
Ensign U.S.N.

From Meridian to 4 P.M.:
Clear and pleasant. Gentle to moderate wind from West and W.N.W. blowing in moderate squalls at times. At 2:00 started fires in boilers Nos. 2 and 4 for distilling. Expended one sounding shot and barrel target, the target sinking. Slack water at 1:45 and swung to the flood. Strength of current at 4:00 1.4 knots.

C. D. Craig
Naval Cadet U.S.N.

From 4 to 8 P.M.
Clear, cool and pleasant, moonlight last half. Gentle breeze from West. Flood tide. At 4:30 sent down t.g. yards. Reed in Equipt. Dept. one (1) cord of fire-wood and in Construction Dept. Nine (9) gallons spirits-of-wine. At 7:30 started the distilled water into the hold.

F. J. Coombs
Ensign U.S.N.

From 8 P.M. to Midnight:
Clear and cool. Light to moderate breezes from West and S.W. blowing in moderate squalls at times. Slack water at 10:00 and swung to the ebb tide.

C. D. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut U.S.N. and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			E. N. E.	S. E.	4-6			30.07	62	60	58		f. c. q.	air cum.	8	S
2	"			E. S. E.	"	4-6			30.06	60	60	56		"	"	8	"
3	Flood			S. by E.	"	4-6			30.05	60	56	53		"	"	6	"
4	"			S. S. E.	"	4-6			30.03	60	56	54		f. c. d. q.	"	6	"
5	"			South	"	4			30.01	59	56	54		f. c.	"	8	"
6	"			"	"	3			30.02	60	57	55		"	"	8	"
7	"			"	"	3			30.01	60	58	55		"	"	8	"
8	"			"	"	3			30.01	60	58	55		"	"	8	"
9	"			S by E.	S. W.	3-4			30.00	63	61	57		"	"	8	"
10	"			"	"	3-4			30.00	65	63	58		"	cum	5	"
11	Ebb			E. S. E.	"	3-4			30.00	67	65	61		f. c. q.	"	3	"
Noon.	"			E. N. E.	"	4-6			29.98	67	66	61		"	"	5	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1200 "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 1 tons 1940 lbs.

Coal remaining on hand at Noon, 43 " 1444 "

P. M.														
1	Ebb	W. S. W.	S. S. W.	4-7	29.97	67	67	67	f. s. q.	cum	1	S. L.
2	"	S. S. W.	"	4-6	29.98	67	67	67	o. c. q.	"	0	"
3	Flood	S. by W.	"	3-6	29.98	67	67	67	"	"	0	"
4	"	S. S. W.	"	3-6	29.97	67	67	67	f. c. q.	air cum	1	"
5	"	"	"	3-6	29.95	67	67	63	"	"	3	"
6	"	"	"	3-5	29.93	67	67	64	"	"	8	"
7	"	"	"	3-5	29.93	67	67	64	"	cum	1	"
8	"	"	"	3-5	29.94	67	67	64	"	"	1	"
9	"	"	"	4-5	29.95	67	66	64	"	"	0	"
10	"	"	"	4-5	29.96	67	65	63	"	"	0	"
11	"	"	"	4-5	29.98	66	65	63	"	"	0	"
Mid.	Ebb.	S. E.	"	4-6	29.99	66	65	63	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday October 12th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:

Fair weather, with flying scud. Light sprinkly last hour. Moderate to fresh breezes in squalls from S.E. Riding between wind & tide entire watch. Distilling. Ebb current 1.0 knot.

B. F. Walling
Lieut U. S. N.

From 4 to 8 A. M.:

Clear & cool. Hazy over land. Moderate to gentle breeze from S.E. Squally. Flood tide. Reid in Pay Dept. for issue to crew 10¼ lbs. each, fresh beef & vegs. & 82 lbs fresh bread. Condensing. Cleaned bilges.

F. J. Fossum
Ensign U. S. N.

From 8 A. M to Meridian:

Cloudy & pleasant. Gentle to stiff breezes from S. W. blowing in fresh squalls at times. Slack water at 9:30 & swung to the flood at 10:30. At 9:30 mustered at quarters, John F. Conery (P. M) absent without leave. At 9:35 exercised at fire-quarters. Immediately afterwards mustered at stations for abandoning ship. Sent Powder Division ashore for target practice with rifles. Veered 15 fms. on port chain & secured the 45 fm. shackle at the controller Ships riding between wind & tide.

C. S. Craig.
Naval Cadet U.S.N.

From Meridian to 4 P. M.:

Cloudy weather. Gentle to moderate breezes with frequent very fresh squalls from S.S.W. Riding between ebb & wind till 2:45 when swung to wind & flood. Ebb current 1.0 knot

B. F. Walling
Lieut U. S. N.

From 4 to 8 P. M.:

Cloudy & squally. Gentle to fresh breezes from S.S.W. Flood tide. Strength of current 1.5 knots at 7:30

C. S. Craig.
Naval Cadet U.S.N.

From 8 P. M to Meridian:

Overcast. Moderate breezes with stiff to fresh squalls from S.S.W. At 11:15 commenced swinging to ebb. At 10 stopped distilling & let fires die out.

B. F. Walling
Lieut U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo, Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N.N.W. by W.	South	5			29.99	68	68	64		b.s.g.	Cum	4	SL
2	"			N. N.W.	"	5			29.99	68	68	66		"	"	3	"
3	Flood.			S. S. W.	"	4			30.00	68	68	66		"	"	3	"
4	"			"	"	3			30.00	68	68	66		"	"	2	"
5	"			South	S. S. E.	3			30.00	68	68	66		o.s.	Cum nm.	0	"
6	"			"	"	3			30.01	68	67	65		"	"	0	"
7	"			"	"	3			30.01	67	66	64		b.s.	"	2	"
8	"			"	"	3			30.01	67	65	63		"	"	3	"
9	"			"	South	3			30.00	67	66	64		"	"	3	"
10	"			"	"	2			30.03	68	66	65		"	"	3	"
11	Ebb			S. S. W.	"	2			30.03	71	70	67		"	"	4	"
Noon.	"			"	"	2			30.03	72	70	67		"	"	4	"
				"													

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water distilled during the preceding 24 hours, 900 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, tons 1570 lbs.

Coal remaining on hand at Noon, 47 " 914 "

P. M.																	
1	Ebb			N by W.	S. W.	2			30.02	72	70	67		f.s.	Cir. Cum.	6	5
2	"			N. W.	"	2			30.01	72	70	67		"	"	6	"
3	Flood			S. W.	"	3			30.01	73	71	68		"	"	8	"
4	"			S. W. by S.	S. W. by S.	2			30.01	74	71	68		"	"	8	"
5	"			S. W.	S. S. W.	2			30.01	71	70	67		"	"	9	"
6	"			"	S. S. W.	2			30.01	71	70	67		"	"	9	"
7	"			"	"	1			30.02	71	71	67		"	"	9	"
8	"			"	"	2			30.02	71	71	68		"	"	9	"
9	"			S. S. W.	"	2			30.03	70	70	67		"	"	9	"
10	"			S by W.	"	2			30.03	70	69	66		"	"	9	"
11	"			South	"	2			30.01	69	68	66		"	"	8	"
Mid.	Ebb.			S. by E.	"	2			30.01	69	68	65		"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday October 13th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences E until 4 A.M:
Generally cloudy. Cool. Squalls from South moderating towards end of watch. At 2:30 swung to flood. Strength of flood at end of watch .3 knot.

A. F. Lechler
Lieut U.S.N.

From 4 to 8 A.M.:
Overcast first two hours, cloudy latter part of watch. Gentle breeze from South & S.S.E. John J. Conery (P.M.) returned from liberty 110 hours over time. Recd on board in Pay Dept. for issue to the crew, 87 lbs. fresh bread. Flood tide. Drift at end of watch 1.2 knots.

C. S. Craig.
Naval Cadet U.S.N.

From 8 A.M. to Meridian:
Fair, pleasant weather. Light to gentle breezes from South. At 9:50 commenced swinging E & at 10:17 swung to ebb. "Figo Mary" came into the harbor. Second Division left the ship for small arm target practice.

B. H. Wadleigh
Lieut U.S.N.

From Meridian to 4 P.M.:
Clear & pleasant. Light breeze from S.W. & S.W by S. At 3:00 swung to flood.

A. F. Lechler
Lieut U.S.N.

From 4 to 8 P.M:
Clear, pleasant weather. Light breezes from S.W by S. & S.S.W. Riding to the flood. Flood current 1.4 knots. 1st Lieut. R.S. Wainwright U.S.M.C. left the ship on leave until Oct. 19th

B. H. Wadleigh
Lieut U.S.N.

From 8 P.M to Midnight:
Clear & pleasant. Light breeze from S.S.W. At 11:30 swung to ebb.

A. F. Lechler
Lieut U.S.N.

Examined and found to be correct.

C. D. Calloway
Lieut & D. Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo, Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			S. E.	S.S.E.	2			30.00	68	67	64		b.c.	cir cum	8	S
2	"			N.N.E.	"	2			30.00	69	68	64		"	"	7	"
3	"			"	"	2			30.00	69	68	64		"	"	7	"
4	"			N.E.by N.	"	2			30.00	69	68	64		"	"	7	"
5	Flood			E.S.E.	"	2			29.99	68	67	64		"	cum.	7	"
6	"			S.S.E.	"	2			29.99	68	67	64		"	"	5	"
7	"			S by E.	"	2			29.98	67	66	64		"	cir cum.	6	"
8	"			"	"	2			29.98	69	67	64		"	"	5	"
9	"			S. by W.	S. by W.	2			29.96	69	68	66		"	"	5	"
10	"			"	"	3			29.94	70	69	67		"	cum	1	"
11	"			S. W by S.	S.W. by S.	3			29.93	70	69	67		O.C.N.	cum numb.	0	"
Noon.	"			"	S.W.	3			29.93	70	69	67		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 43 " 514 "

P. M.														
1	Ebb	S.W. by S.	S.W.	3	29.90	70	69	67	O.C	Cum nim.	0	S.
2	"	N.W.	West	3-5	29.89	69	67	66	O.C.N.S.	"	0	"
3	"	North	N.W.	3	29.90	67	64	62	O.C.N.	"	0	"
4	"	N by W.	"	3	29.92	67	64	61	"	"	0	"
5	"	N.N.W.	N.W. by N.	3	29.99	66	62	59	b.c.	Cum	2	"
6	Flood	N.W. by W.	N.N.W.	2	29.99	64	62	59	"	"	3	"
7	"	N.W.	"	2	30.01	63	60	58	"	"	3	"
8	"	S.W.	N.W.	2	30.02	62	60	58	"	"	2	"
9	"	"	"	2	30.06	60	59	54	"	"	3	"
10	"	S.W by S.	"	2	30.08	60	59	54	"	"	3	"
11	"	W.S.W.	N.N.W.	3-4	30.10	60	59	54	b.c.g.	"	6	"
Mid.	"	W. by N.	"	5	30.12	60	58	53	"	cir cum.	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday October 14th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Partly clear, pleasant. Light breeze from S.S.E.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A. M:
Fair, pleasant weather. Light breeze from S.S.E. P.A. Paymr. H.R. Smith left the ship on leave until Oct. 19th. Recd on board & issued to crew 107# lbs fresh beef, 103# lbs fresh vegetables & 87 lbs. fresh bread. At 4:30 commenced swinging & at 4:55 swung to flood.

B. H. Wallace
Lieut U.S.N.

From 8 A. M to Meridian:
Generally cloudy. Last hour raining. Light to gentle breeze from S by W. to S.W. Flood tide. At 9:30 Commander inspected ship with crew at quarters.

C. A. T. Jewett
Lieut U.S.N.

From Meridian to 4 P.M.:
Overcast raining & squally. Light to stiff breeze in squalls from S.W to N.W. Swing to ebt at 2 P.M. Strength of ebt at 3:30, 1½ knots

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M:
Generally cloudy. Light to gentle breeze from N.W by N & N.N.W. Swing to flood between 5 & 6 P.M. By order of Commander, placed J. Halpin (P.M.) in double irons for five days for smuggling

A. T. Jewett
Lieut U.S.N.

From 8 P.M to Midnight.
Clearing weather, squally last half. Light to stiff breeze from N.W. to N.N.W. At 11: strength of flood .7 knots.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C. C. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo, Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			N.W. by N.	N.N.W.	4			30.17	59	56	50		l.s.g.	Cir cum.	8	3
2	"			N. by W.	"	4			30.15	57	56	50		"	"	8	"
3	"			North	"	4			30.16	56	55	49		"	"	8	"
4	"			"	"	4			30.16	56	55	49		"	"	8	"
5	"			N. by W.	"	3			30.20	56	55	51		l.s.	"	8	"
6	"			N.N.W.	"	2			30.22	56	55	51		"	"	7	"
7	"			N. by W.	"	2			30.24	56	55	51		"	"	8	"
8	Flood			W. by S.	"	2			30.26	55	54	49		l.	Clear	10	"
9	"			S.S.W.	N.N.E.	1			30.25	57	56	50		"	"	10	"
10	"			S. by W.	"	1			30.24	60	59	52		"	"	10	"
11	"			"	"	1			30.23	61	60	53		"	"	10	"
Noon.	"			"	S. S. W.	1			30.22	61	61	53		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 47 " 114 "

P. M.												
1	Flood	S.S.W.	S.W.	1	30.20	61	60	53	l.c.	Cir cum	8	3
2	"	S.W.	West.	1	30.18	61	59	53	"	"	8	"
3	Ebb.	N.W.	"	1	30.16	63	61	53	"	"	8	"
4	"	N.N.E.	"	1	30.16	62	61	54	"	"	8	"
5	"	North	W. by S.	2	30.15	61	61	54	"	"	8	"
6	"	N.N.W.	"	2	30.15	61	61	54	"	"	8	"
7	"	"	"	2	30.14	60	60	54	"	"	8	"
8	Flood	South	N.W.	1	30.14	60	59	54	"	"	8	"
9	"	"	S.W.	1	30.16	60	60	55	"	"	9	"
10	"	S.S.W.	"	1	30.17	60	60	55	"	"	9	"
11	"	"	"	3	30.17	61	61	55	"	"	5	"
Mid.	"	"	"	4-5	30.17	62	62	56	l.c.g.l.	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,
Monday October 15th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear & cool. Bright starlight. Moderate breeze from N N.W. Squally. Riding to ebb tide.

F. J. Sowerwine
Ensign U.S.N.

From 4 to 8 A.M.:
Clear & pleasant. Light breeze from S.S.W. Ebb tide. Slack water at end of watch. At 7:15 loosed sail to a bowline. Recd. & issued to crew 87 lbs. fresh bread.

A. N. Jeffers
Lieut U.S.N.

From 8 A.M to Meridian:
Clear & pleasant. Light airs from S.S. & & S.S.W. At 9:25 went to general quarters. Examined magazine & shell-room flood cocks & dry gun-cotton & found all in good condition. Petty officers & seamen of 1st Div. fired at target with range-finder in 6 Pdr. Strength of flood at 11. 08 knots.

W. H. Taggett
Ensign U.S.N.

From Meridian to 4 P.M.
Clear, mild & pleasant. Light airs from S.W. & West. Riding to flood tide until 3:00 when swung to ebb. Red-leaded engine room & fore hatch. Sent No. 2 guns crew ashore for target practice. First Div. firing with range finder from 6 Pdr. rifle. Navigator took all compasses ashore to test for accuracy & sensibility. Painting inside of second cutter.

F. J. Sowerwine
Ensign USN

From 4 to 8 P.M.:
Clear & pleasant. Light airs & breeze from N by S. to S.S.W. At 4 o'clock furled sails & sent down t.g. yards & masts. At 6:30 strength of ebb 0.8 knots. Swung to flood at 7:30

W. H. Taggett
Ensign U.S.N.

From 8 P.M to Midnight:
Clear decreasing to cloudy weather. Lightning to NW. Light airs increasing to moderate to stiff breeze, in squalls, last hour, from S.W. Flood tide.

F. J. Sowerwine
Ensign U.S.N.

Examined and found to be correct.

E. K. Calloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbour of Chemulpo Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			W.S.W.	S.W.	4-6			30.11	62	62	59		b.c.g.r.f.	Cum nim.	2	S
2	"			S.W.	W.S.W.	3-5			30.14	61	60	58		"	"	2	"
3	Ebb			N.N.W.	"	3-4			30.14	59	59	56		b.c.	Cir Cum.	7	"
4	"			North	N.W.	3			30.13	59	58	55		"	"	8	"
5	"			"	"	2			30.13	57	58	55		"	"	8	"
6	"			N.N.W.	West	2			30.16	57	58	56		"	"	8	"
7	"			N.W.by W.	N.W.by N.	2			30.19	57	55	50		"	"	8	"
8	"			"	"	2			30.19	57	55	50		"	"	8	"
9	Flood			N.by W.	N.N.W.	2			30.20	56	54	50		b.	~~Clear~~ Cirro	10	"
10	"			S.W.by S.	W.N.W.	2			30.21	56	55	50		"	"	10	"
11	"			"	"	2			30.21	57	56	50		"	"	10	"
Noon.	"			"	"	2			30.17	58	57	51		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, tons 460 lbs.

Coal remaining on hand at Noon, 41 " 1954 "

P. M.									
1	Flood	S.W.by S.	N.N.W.	2	30.18	58	58	51	b.	Clear	10
2	"	"	"	2	30.15	58	56	49	"	"	10
3	Ebb	S.W.by W.	"	2	30.13	58	56	50	"	"	10
4	"	N.W.	"	2	30.13	60	57	51	"	"	10
5	"	N.by W.	W.N.W.	2	30.11	58	56	50	"	"	10
6	"	North	"	2	30.10	57	56	51	b.g.	Strat.	9
7	"	"	"	2	30.11	57	56	51	"	"	9
8	"	N.W.	"	2	30.11	57	55	51	"	"	9
9	Flood	S.by W.	"	2	30.11	57	56	52	b.	~~Strat~~	10
10	"	"	"	2	30.11	56	55	52	"	"	10
11	"	"	S.W.	2	30.11	56	55	50	"	"	10
Mid.	"	"	"	1-2	30.11	56	55	50	"	"	10

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday October 16th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:

Cloudy rainy & squally first two hours, clearing last two hours. Gentle to stiff breeze from S.W. hauling to the W'd & N'd to N.W. At 1:45 had a fresh rain squall with a stiff breeze; veered 15 fms. on port chain, secured with 60 fm. shackle at hawse pipe. Bright lightning with thunder in the N'd & W'd. first part of watch. Black water at 3:00 & swung to the ebb tide.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 A.M.

Clear cool & pleasant. Light breeze from West to N.W. by N. Made preparations for coaling ship. Reed & issued to crew 87 lbs. fresh bread & 107½ lbs each of fresh beef & vegetables. Black water at 7:30. At 7:45 sent up t. g. masts & yards.

W. B. Hoggatt
Ensign U.S.N.

From 8 A.M to Meridian:

Clear & cool. Light breeze from N.N.W. & W.N.W. At 9:15 swung to flood. Moored in 30 fms. on port chain. At 11:00 the Russian man-of-war "Korietz" came in & anchored. Sent an officer to offer the usual courtesies. Coaling ship. Reed at end of watch, 40 tons of coal on board The 2nd L.W. firing with range-finder in 6 Pdr. rifle. Sailmaker's mate repairing f.t.m. staysail.

F. J. Boorman
Ensign U.S.N.

From Meridian to 4 P.M:

Clear & pleasant. Light breezes from W.N.W. Black water at 3:00 & swung to the ebb tide. Reed an official visit from H.I.R.M.S. Korietz exteuding thanks for our visit this morning. at 1:30 finished coaling & coal lighter left the ship. Reed in all 75 tons Takasima coal. Washed down the decks & cleaned paint work. Expended one sounding shot & barrel target, the barrel sinking. Laid out another. Exercised five men of 2nd div. at firing 6 Pdr. with small arm attachment.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 P.M.

Clear, cool & pleasant. Light breeze from W.N.W. At 4:30 sent down t.g. yards Riding to ebb-tide, draft at 5:00 1.1 knots.

F. J. Boorman
Ensign U.S.N.

From 8 P.M to Meridian:

Clear, cool & pleasant. Light breezes from W.N.W. & S.W. Bright moonlight. Flood tide. Swung to the flood at 9:00

C. S. Craig.
Naval Cadet U.S.N.

Examined and found to be correct.

R. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S. by W.	E.S.E.	2			30.11	56	56	52		h.	Clear	10	S
2	"			"	"	2			30.11	58	57	53		"	"	10	"
3	"			South	"	2			30.10	55	57	53		"	"	10	"
4	Ebb			"	"	2			30.08	56	56	53		"	"	10	"
5	"			N. by E.	"	2			30.06	55	55	53		l.c.	Cir cum	9	"
6	"			E.N.E.	"	2			30.05	56	56	53		"	"	6	"
7	"			"	"	2			30.05	55	54	53		"	"	5	"
8	"			N.E.	S.E.	3			30.03	56	55	51		"	"	4	"
9	"			S.E. by S.	"	3			30.03	58	57	52			"	5	"
10	Flood			South	"	3			30.05	60	59	52		"	"	5	"
11	"			"	"	2			30.03	63	61	54		"	"	7	"
Noon.	"			S. by W.	S.S.E.	2			30.00	63	62	56		"	"	8	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 116 " 1554 "

P. M.										
1	Flood	S by W.	South	2	29.98	66	65	60	l.c.	Cir cum.	8
2	"	"	"	2	29.97	66	65	61	"	"	7
3	"	"	S by W	2	29.95	67	66	62	"	"	6
4	"	S.S.W.	"	2	29.92	68	67	62	"	"	4
5	Ebb	N. by W.	"	3	29.92	67	66	62	O.C.	"	0
6	"	"	"	3	29.91	67	66	63	"	"	0
7	"	North	S.W.	2	29.91	67	67	63	"	"	0
8	"	"	S.S.W.	2	29.91	67	67	64	"	Cum	0
9	"	South	N. by W.	2	29.89	66	66	63	"	"	0
10	Flood	"	"	2	29.89	65	65	62	"	"	0
11	"	"	"	3	29.87	64	64	62	O.C.N.	Cum nimb	0
Mid.	"	S by W.	South.	3	29.87	64	64	61	"	"	0

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday October 17th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M:
Clear cool weather. Light breeze from E.S.E. At 3:40 commenced swinging to ebb. Flood current 1.4 Knots.

B.T. Walling
Lieut U.S.N.

From 4 to 8 A.M:
Clear cool & pleasant. Light to gentle breeze from E.S.E. & S.E. Riding to ebb tide. Engaged in breaking out fore hold. Rec'd on Pay. Dept. for issue to crew 87 lbs fresh bread. At 8:40 crossed t.g. yards.

T. J. Loomis
Ensign U.S.N.

From 8 A.M to Meridian:
Fair, cool & pleasant. Gentle to light breezes from S.E. & S.S.E. Broke everything out of the fore hold, cleaned it out & commenced restowing it. The Condg Officer of H.I.R.M.S. Moritz called officially on our Commander. Slack water at 9.00 & swung to the flood tide. Strength of current at end of watch 1.6 Knots.

G.S. Craig.
Naval Cadet U.S.N.

From Meridian to 4 P.M.
Fair, pleasant weather. Light breezes from South & S.W. by S. Figs Manu went to sea. Engaged stowing fore hold. Riding to the flood. Flood current 1.6 Knots.

B.T. Walling
Lieut U.S.N.

From 4 to 8 P.M.
Overcast & cloudy. Gentle to light breezes from S.W. & S.S.W. Finished restowing fore hold. Recovered one barrel target & sounding sluck. At beginning of watch swung to the ebb tide. At 5:30 sent down topgallant yards.

G.S. Craig.
Naval Cadet U.S.N.

From 8 P.M to Midnight
Cloudy weather. Rainy last two hours. Light to gentle breezes from N. by W. shifting to South. At 9:15 commenced swinging & at 9:35 swung to flood.

B.T. Walling
Lieut U.S.N.

Examined and found to be correct.

T.D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Chemulpo Korea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S. by W.	S. E.	3			29.90	65	64	61		o.c. r.g.	Cum nim	0	S
2	"			South	"	3-4			29.83	64	61	58		"	"	0	"
3	"			"	"	3-4			29.79	64	60	58		"	"	0	"
4	"			S.S.E.	"	4			29.73	63	59	57		"	"	0	"
5	Ebb			N.E.	East	3			29.75	60	58	56		"	"	0	"
6	"			N.N.E.	"	2			29.98	60	58	56		o.c.	"	0	"
7	"			N.E. by E.	"	2			29.80	60	57	55		l.c.	"	1	"
8	"			E.S.E.	"	2			29.80	60	57	55		"	"	1	"
9	"			S.S.W.	"	2			29.80	59	58	56		"	Cir Cum.	2	"
10	"			E.S.E	"	2			29.80	62	60	57		"	"	4	"
11	Flood			S.S.W.	North	2			29.80	64	63	60		"	"	6	"
Noon.	"			"	N.N.W.	2			29.80	67	65	62		"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, tons 760 lbs.

Coal remaining on hand at Noon, 116 " 704 "

P. M.												
1	Flood	S. S. W.	N.N.W.	2	29.77	68	67	63	l.c.	Cir cum	8	S.
2	"	"	"	2	29.77	68	67	63	"	"	8	"
3	"	"	N. by E.	2	29.78	71	70	65	"	"	8	"
4	"	"	Calm	0	29.78	72	71	66	"	"	8	"
5	Ebb.	West	W. by N.	2	29.79	68	67	64	"	"	6	"
6	"	N. by N.	"	2	29.80	68	67	64	"	"	5	"
7	"	North	"	2	29.81	68	67	64	"	"	6	"
8	"	"	"	2	29.84	68	67	64	"	"	6	"
9	"	N. by W.	N.N.W.	2	29.84	66	65	61	l.s.z	"	3	"
10	"	N.W. by W.	North	2	29.86	65	65	61	"	"	7	"
11	Flood	S. S. W.	"	2	29.87	65	65	62	"	"	4	"
Mid.	"	S. by W.	N.W.	1	29.88	65	65	62	"	"	4	"

under the command of Commander T. T. Jewell, U. S. Navy,

Thursday October 18th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Rainy & squally. Gentle to moderate breeze from S.E. Barometer falling. Flood tide.

A. F. Fechteler
Lieut U. S. N.

From 4 to 8 A. M:
Overcast, cloudy & rainy first two hours. Cloudy latter part of watch. Gentle to light breeze from East. At 7:15 crossed topgallant yards & loosed sails to a bowline. Recd on board in Pay Dept. for issue to the crew 87 lbs. fresh bread. At 4:30 swung to the ebb tide.

From 8 A. M to Meridian
C. S. Craig
Naval Cadet U.S.N.

Cloudy weather, clearing towards end of watch. Light breezes from East, shifting to North & N.W. At 9:30 inspected at quarters & exercised, 1st 2nd & 3d divs. at single Sticks, Nav. Eng. & Powder divs. at rifles. At 10:15 had sail exercise. At 10:05 commenced swinging & at 10:30 swung to flood.

B. T. Walling
Lieut U.S.N.

From Meridian to 4 P.M.
Clear & pleasant. Light breeze from N.N.W. & N. by W. Calm at end of watch. Flood tide. Strength of flood at end of watch 1.9. At 3.00 furled sails & sent down royal yards.

A. F. Fechteler
Lieut U.S.N.

From 4 to 8 P.M:
Fair pleasant weather. Light breezes from W. by N.. At 5:00 started fires under No 2 & 4 boilers for distilling. Cadet-Engr. D. S. Redgrave U.S. Navy received his commission as Asst. Engineer. At 4:40 commenced swinging & at 5:10 swung to ebb. Ebb current 0.9 knot.

B. T. Walling
Lieut U.S.N.

From 8 P.M. to Midnight
Weather pleasant. Generally cloudy & hazy. Last hour overcast. Light airs to light breeze from North to N.W. At 11:00 swung to flood. Distilling.

A. F. Fechteler
Lieut U.S.N.

Examined and found to be correct.

E. E. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Chemulpo Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.W. by S.	West	2			29.89	64	65	62		b.c	Cir Cumu	5	S
2	"			S.S.W.	"	1			29.89	64	65	62		"	"	5	"
3	"			"	"	2			29.89	64	63	61		"	"	5	"
4	"			S by W.	North	2			29.88	64	63	61		"	"	5	"
5	Ebb			N. by E.	N.N.W.	2			29.89	64	63	61		"	"	3	"
6	"			"	"	1			29.89	65	63	61		"	"	2	"
7	"			North	N.W.	2			29.91	65	63	61		"	"	4	"
8	"			"	"	2			29.92	64	62	60		"	"	8	"
9	"			N.W.	"	2			29.95	65	62	60		"	"	4	"
10	Flood			W.N.W.	W.N.W.	2			29.98	65	63	59		"	"	4	"
11	"			S.W.	"	3			29.98	66	63	60		"	"	4	"
Noon.	"			S.W. by S.	"	3			29.98	66	64	60		"	"	4	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 3110 gallons.

Water Distilled during the preceding 24 hours, 1200 "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 1 tons 1770 lbs.

Coal remaining on hand at Noon, 114 " 1814 "

P. M.													
1	Flood		S.W. by S.	W.N.W.	3		29.95	66	65	60	b.s.	Cir Cumj.	6 S
2	"		"	West	3		29.95	66	65	60	"	"	7 "
3	"		"	"	3		29.95	66	64	59	"	"	8 "
4	"		"	"	3		29.96	65	64	59	"	"	8 "
5	"		S.W.	"	3		29.96	64	63	58	"	"	7 "
6	"		N.W. by W.	W.N.W.	3		29.96	62	60	55	"	"	7 "
7	Ebb		North	N.W.	3-4		29.99	61	60	55	"	"	7 "
8	"		N. by W.	"	3-4		30.01	61	59	54	"	"	7 "
9	"		"	"	4		30.05	60	56	52	"	"	1 "
10	"		N.W. by N.	N.N.W.	4		30.07	58	54	50	"	"	1 "
11	Flood		W. by N.	"	4-6		30.08	56	53	49	b.s.g.	"	1 "
Mid.	"		W.S.W.	"	4-6		30.09	54	52	49	"	"	1 "

under the command of Commander T. F. Jewell, U. S. Navy,

Friday October 19th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Partly cloudy, Pleasant. Light airs & breezes from West to North. At 3: Strength of flood 1.8 knots. Distilling

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M:
Cloudy first part, clear latter part. Light airs & breezes from N.N.W. Light breezes from N.W. Read on board & issued to crew 102 lbs fresh beef, 102 lbs fresh vegetables & 87 lbs fresh bread. At 4:55 commenced swinging & at 5:20 swung to ebb. Distilling.

B. F. Waesche
Lieut U. S. N.

From 8 A. M to Meridian:
Fair & pleasant. Light to gentle breeze from N.W. & W.N.W. At 10:30 swung to flood. At 9:30 inspected at quarters. Exercised 1st & 2nd Divs. at single sticks, 3d & Nav. at rifles. At 10:00 exercised at fire-quarters. Navigators Div. fired at target with small arm cartridges from 60 Pdr Rifle. By order of Commander released J. Halpin (P.M) from confinement

A. T. Leetch
Lieut U. S. N.

From Meridian to 4 P. M.
Partly clear pleasant. Gentle breeze from W.N.W. to West. P.A. Engr. H. Herwig was detached from this vessel & left on the Tsuruga Maru for Tien-tsin to report to the Comdg. Officer of the U.S.S. Palos, for duty on that vessel. At 3: P. M. strength of tide 1.7 knots. Tried capstan engine & found it in good condition. Distilling

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.
Clear & pleasant. Gentle to moderate breeze from N.W. to North. At 6:00 swung to ebb. Making preparations for sea P.A. Paymaster H. R. Smith & Lieut R. D. Wainwright returned from leave. Strength of ebb at 7:30, 1.1 knots.

A. T. Leetch
Lieut U. S. N.

From 8 P. M to Midnight:
Cloudy & squally last two hours, with very light rain last hour. Mod. to fresh breeze & squalls from N.W. to N.N.W. At 11:55 stopped distilling & hauled fires.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Phenupeh Korea E on the passage to Tsing Chau China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. E Shubs Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															Cir Cum		
1	Flood			S. W.	N.W.	4			30.08	52	51	48		L.S.Q.	L.Cq.	4	B
2	"			"	"	4			30.08	51	49	46		"	"	5	"
3	"			S.W. by S.	"	4			30.07	50	47	45		"	"	6	"
4	"			.	"	4			30.06	48	45	43		"	"	8	"
5	.			S.W. by W.	.	4			30.06	45	44	41		L.S.	L.f.	8	"
6	Ebb			N by W.	N. by W.	3			30.06	44	41	37		"	"	8	"
7	"			North	N.N.W.	3			30.02	43	40	35		"	"	8	"
8	5	8	5.8	S.W. by S.	"	4			30.12	44	42	38	64	"	"	8	"
9	7	9	13.7	S.W. ½ W.	N.N.W.	4			30.16	44	41	38	64	"	"	8	"
10	7	9	21 6	W.S.W. ½ W.	N.N.	4			30.18	44	42	38	64	"	"	7	"
11	8	9	30 5	W. ½ S.	.	3			30.15	46	43	40	64	"	"	7	"
Noon.	7	2	37.7	W.N.W. ½ W.	.	2			30.12	48	45	42	64	"	"	7	"

Course and distance made good since preceding noon by observations, Various Coasting 57 knots. 7 tenths.

Position at Noon:
- Latitude by ~~D.R.~~ Bearings N. 37 ° 00 ' 30 "
- Longitude by ~~D.R.~~ Bearings E. 125 ° 59 ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by D.R. N 37 ° 08 ' "
- Longitude by D.R. E 125 ° 15 ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 900 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 7 tons 650 lbs.

Coal remaining on hand at Noon, 107 " 1164 "

P. M.													
1	7	0	44.6	W.N.W. ½ W.	West.	2	30.10	50	47	44	64	O.S.d.h	Cir Cum	0	B
2	6	5	51.1	.	.	2	30.09	49	46	44	64	"	"	0	"
3	6	6	57.7	"	W.N.W. ½ W.	3	30.09	48	48	45	64	"	"	0	"
4	6	0	63.7	"	N.W.	4	30.09	48	46	45	64	O.C.N.q.	Cum nim	0	"
5	6	1	69.8	"	N.N.W.	4-6	30.07	48	47	45	62	L.C.q.N.	"	3	"
6	3	7	73.5	"	N.W.	5-7	30.05	50	50	46	61	L.C.q.L.	"	3	M
7	2	0	75.5	"	"	47	30.05	49	48	46	60	L.O.q.p.	"	3	"
8	1	9	77.4	"	N.W. by W.	47	30.07	50	49	45	60	"	"	5	"
9	1	8	79 2	"	N.W.	47	30.09	50	49	46	60	L.C.L.q.	Cum.	6	"
10	1	8	81.0	"	"	4-7	30.10	50	49	46	60	L.C.q.p.	"	6	"
11	2	9	83.9	"	N.N.W.	4-7	30.10	50	49	46	60	"	"	5	"
Mid.	3	8	87 7	"	North	46	30.10	50	49	46	60	"	Cum nim	4	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday October 20th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M:

Clear, cool & pleasant. Mod. breeze from N.W. Flood tide. At 1:30 started fires in boilers Nos. 1, 3, 5, 6, 7 & 8

T. J. Boggatt
Ensign U.S.N.

From 4 to 8 A.M:

Clear & cool. Gentle to moderate breeze from N by W. to N.W. At 6:00 swung to ebb. At 5:30 unmoored. At 7:10 got under way & steamed out of the harbor. At 7:30 set square sail to fogt. sails & jib. At 5:36 hauled fires in boilers 1 & 3 on account of a leak. At end of watch, abreast of Godolim Id. Ships draft forwd. 14 ft, Aft 16 ft.

A. T. Jochstin
Lieut U.S.N.

From 8 A.M to Meridian:

Partly clear, cool. Light to mod. breeze from N.N.W. to N.W. At 8:15 set fore & aft sails. At 9:30 started fires in boilers 1 & 3. At 10:35 furled topsails & fogt sails At 11:15 took in forsail & at 11:30 fore & aft sails. At 11:50 Pangasinan bore W. by S. Chamelons Laubat N.W. by N. Sem Bhemptan, N E ½ N. Changed course to N.N.W. ½ W. P.L. 36. Standing through Prince Imperial Archipelago with the Comdg Officer & Nav. at the Conn.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.

Overcast & cloudy, with passing rain squalls with hail. Light increasing to mod. breeze from West to N.W. Squally. At 1:00 took departure, P.L. 4:55 Chamelons Laubat bore (S.S.) E.S.E ½ E., N.W. Rock W.S.W. ¼ W. & Sopaw Id. N. by E. ¾ E. At 2:10 N.W. Rock bore abeam, distant about 5 miles. Steamed along P.L. 63.7

T. J. Boggatt
Ensign U.S.N.

From 4 to 6 P.M:

Rainy weather with hail. Mod. to fresh breezes from N.N.W. shifting to N.W. & freshening in squalls. At 4:05 set forsail & fore & aft sails; took them in at 4:55. Sea rising, ship pitching easily. P.L. 73.5

D. D. Darling
Lieut U.S.N.

From 6 to 8 P.M:

Cloudy & squally, occasional hail & rain. Wind moderate to very fresh from N.N.W. to N.N.W. by W. Moderate sea, ship pitching easily. At 5:40 slowed down to 35 revolutions. Course W.N.W. ½ W. At 7:30 set fore & aft sails, but took it in again immediately

A. T. Jochstin
Lieut U.S.N.

From 8 P.M to Midnight:

Partly clear, squally with occasional hail & rain. Moderate to very fresh squalls from N.W. to North. At 11:25 set jib, m. bysail & spanker. Ships pitching easily to mod. sea from N.W. On course W.N.W. ½ W.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage to Teng Chau Ching from Chemulpo Korea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	3	8	87.7	W.N.W.½W.	North	4-6			30.10	50	44	43	60	l.c.q.p.	Cir mm	1	W.
2	4	7	96.2	"	"	4-6			30.10	50	44	43	60	o.s.q.p.	"	0	"
3	3	4	99.6	"	N.N.W.	4-6			30.10	50	44	43	60	l.s.q.p.	"	2	"
4	3	2	102.8	"	N.W.	4-6			30.10	50	45	44	60	"	"	1	"
5	3	3	6.1	"	"	4-7			30.10	50	45	44	60	"	"	3	R.C.
6	3	6	9.7	"	"	4-8			30.10	50	45	44	60	l.s.q.	"	3	"
7	3	7	12.9	"	"	5-8			30.08	50	45	44	60	"	"	2	"
8	2	8	15.7	"	"	5-8			30.11	49	43	42	62	"	"	5	"
9	3	9	19.6	"	N.N.W.	4-5			30.15	48	42	40	61	"	"	5	"
10	3	9	23.5	"	"	4-5			30.16	48	42	41	61	"	"	4	"
11	4	3	27.8	"	"	4-5			30.18	47	42	41	62	"	"	6	"
Noon.	4	9	32.7	"	"	4-5			30.19	47	43	41	62	"	"	6	W.

Course and distance made good since preceding noon by ~~observations~~, P. Log 95 knots. 0 tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ N. 37 ° 05′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ E. 124 ° 05′ ″

Position at 8 a. m.
- Latitude by D. R. N. 37 ° 13′ ″
- Longitude by D. R. E. 124 ° 27′ ″

Position at 8 P. M.
- Latitude by D. R. N. 37 ° 18′ ″
- Longitude by D. R. E. 123 ° 10′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, 15 tons 1810 lbs.

Coal remaining on hand at Noon, 91 " 1594 "

P. M.																	
1	5	6	38.3	W.N.W.½W.	N.W.by N.	4-6			30.19	49	48	43	65	l.c.q.p.	Cum.	5	N.
2	6	1	44.4	"	N.W.by W.	4-6			30.17	50	49	44	65	"	"	5	"
3	5	0	49.4	"	W.N.W.	4-5			30.16	50	49	44	65	l.c.q.h.	"	4	"
4	5	9	56.41	"	N.W.by N.	4-6			30.16	50	47	44	64	l.s.q.p.	"	4	"
5	5	7	62.1	"	N.W.	4-6			30.15	49	47	44	62	"	"	4	"
6	6	0	68.1	"	"	4-6			30.14	49	48	44	62	l.s.q.p.h.	"	4	"
7	5	3	73.4	"	W.N.W.	4-6			30.14	49	48	44	62	l.s.q.p.	Cum. Nim.	2	L.
8	5	4	77.4	"	West	4-6			30.15	50	45	42	62	"	"	2	"
9	4	2	81.6	"	W.N.W.	3-6			30.18	47	44	42	62	"	"	2	"
10	4	7	863	"	W.S.W.	3-4			30.17	46	44	42	62	l.s.	"	3	"
11	3	8	90.1	N.W.by W.	West	3-6			30.17	46	46	44	60	"	"	4	"
Mid.	4	6	94.7	"	N.N.W.	4-6			30.17	47	46	44	60	l.s.p.q.	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday October 11th, 1885.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:

Cloudy, with frequent squalls accompanied by hail & rain, moon shining through clouds. Mod. to fresh breezes from North. to N. W. At 12:30 took in fore & aft sails. Engines slowed down, Mod. sea & swell from N. W. Ship pitching easily. P. L. 7.8

T. J. Soomer
Ensign U.S.N.

From 4 to 8 A. M:

Squally. Cold weather with passing showers of hail & rain. Moderate breezes to moderate gale, hauling & veering between W. N. W & N. N. W. Long rough sea. Ship pitching deeply, but easily. Steaming a course W. N. W ½ W. under steam alone. Shifted foretopmast staysail. Sighted a barque lying to, to Nd & Ed. P. L. 15.7.

D. N. Waeling
Lieut U.S.N.

From 8 A. M to Meridian:

Fair & cool. Wind in squalls from N. N. W. Moderate to stiff sea, moderating during watch. Ship pitching easily. At 8:15 set fore & aft sails except flying jib. At 11:00 increased speed of engines to 40 revolutions. Course W. N. W ½ W. Sighted a barque standing to Ed.

A. F. Seamon
Lieut U.S.N.

From Meridian to 4 P. M:

Cloudy, cool & squally with passing rain & hail showers. Moderate to fresh breeze from W. N. W. to N. W. by N.. At 1:00 went ahead full speed At 1:30 took in fore & aft sail. At 2:30 changed course to W. N. W. P. L. reading 49.4 Ship pitching easily to a moderate sea from N. W.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 6 P. M:

Cloudy, cool & squally, with passing rain & hail. Moderate to fresh breeze from N. W. veering occasionally for a few minutes to North & W. N. W. Heavy cum. & nimb. clouds. Steaming course W. N. W. Ship pitching easily. Mod. sea & swell from N. W. P. L. 68.1

T. J. Soomer
Ensign U.S.N.

From 6 to 8 P. M.

Cold, cloudy weather, with passing rain & hail. Squally. Moderate to fresh breezes from N. W. to W. by S.. Long sea from N. W. Ship pitching easily & at times deeply. On course W. N. W. under steam alone P. L. 77.4

D. N. Waeling
Lieut U.S.N.

From 8 P. M. to Midnight.

Cold. Generally cloudy. Occasional hail & rain. Wind in squalls, gentle to fresh, shifting from N. N. W to W. S. W. Long sea from N. W. At 9:55 changed course to N. W. by W. Set fore & aft sail & took it in again at 10:55.

A. F. Seamon
Lieut U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Chemulpo Korea to Teng Chau, China & at anchor there.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	3 2	3 0	9.8 1.80	N.W. by N. N.N.W. W.	N.N.E.	2-4			30.18	49	45	43	60	U.S.R.L.G.	Cum. nimb.	0	M.
2	5	5	5.5	"	N.N.W.	3			30.18	48	45	43	60	L.S.R.	"	3	"
3	6	0	11.5	"	"	3			30.17	48	45	43	60	L.S.	"	4	S.
4	3 3	9	15.4 18.5	N.W.	"	3			30.17	48	45	43	60	"	"	3	"
5	6	6	25.1	W.N.W.	N.W. by N.	4			30.19	49	48	47	60	L.S.G.	"	4	"
6	6	8	31.7	"	"	4			30.20	49	48	43	60	"	"	4	"
7	7	0	38.9	"	"	4			30.21	49	48	43	60	"	"	4	"
8	6	6	45.5	"	"	4-5			30.23	50	48	42	60	"	"	4	"
9	4 1	9 6	50.4 52.0	W.N.W. ¼W.	N.W.	4			30.27	50	49	44	60	"	Cums.	4	"
10	6	8	58.8	"	"	4			30.28	51	49	44	60	"	"	5	"
11	6	8	65.6	"	W.N.W.	4			30.29	51	50	44	60	"	"	6	"
Noon.	7	0	72.6	"	"	4			30.29	51	50	44	59	"	"	6	"

Course and distance made good since preceding noon by ~~observations~~, P. Log 139 knots. tenths.

Position at Noon:
- Latitude by ~~D.R.~~. Bearings N. 37 ° 38 ' "
- Longitude by ~~D.R.~~. Bearings E. 121 ° 38 ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by Bearings N 37 ° 34 ' "
- Longitude by Bearings E. 122 ° 10 ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 18 tons 1300 lbs.

Coal remaining on hand at Noon, 73 " 294 "

P. M.															
1	6	4	79.0	W.N.W. ¼W.	W.N.W.	4	30.27	52	51	45	59	L.S.	Cir. Cums.	8	S.
2	6	5	85.5	W.N.W.	"	4	30.25	53	52	46	59	"	"	8	"
3	6	4	91.9	"	"	4	30.25	53	52	46	59	"	"	8	"
4	6	2	98.1	"	"	4	30.25	53	52	46	60	"	"	8	"
5	6	3	4.4	"	"	4	30.28	54	52	46	60	"	"	7	"
6	6	7	11.1	N.W. by W. ½W.	"	4	30.27	53	51	46	60	"	"	7	"
7	6	4	17.5	"	W. by N.	4	30.25	53	51	46	58	"	"	8	"
8	0 4	6 0	18.1 22.1	W. ¾ N. W. ½ N.	"	4	30.23	53	51	46	58	"	"	8	"
9	1	9	24.0	"	West	3	30.27	51	49	45		"	Hz.	8	"
10	Flood		27.0	West W by N.	"	2	30.27	50	48	45		"	"	8	"
11	Ebb			E. N. E.	"	2	30.27	50	48	45		"	"	8	"
Mid.	"			N.N.E.	"	2	30.27	51	49	46		"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Monday October 22nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast with rain & hail squalls first part clearing last part. Light to moderate breeze from N.N.E. to N.N.W. At 12:35 changed course to N.W. ½ W. & at 3:45 to N.W. At 12 sighted Shantung Lt. & at end of watch Shantung Lt. bore (P.S.) S by W ¼ W. distant 6 miles, ships head N.W. Land in sight on port beam at end of watch. Mod. decreasing sea.
W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A. M:
Fair & cool. Mod. to stiff breeze from N.W. by N. Squally: At 4:10 changed course to W.N.W. P.L. reading 19:7. Land along port hand. At end of watch, cape Cod bore S.W. Steam along. Mod. sea. Ship steady P.L. 45.5
F. J. Boerner
Ensign U.S.N.

From 8 A.M to Meridian:
Clear cool weather. Moderate breezes from W.N.W. & N.W. & steaming a course W.N.W. under steam alone. At 8:45 changed course to W.N.W. ½ W. At 9:30 inspected at quarters. Exercised 1, 2, 3 & Nav. Divs. at single sticks. Tested Magazine & shell-room flood cocks & dry gun-cotton & found them in good condition. Land all along port side. Passed Eddy Island abeam at 8:30. At 12: Ships Lt. Ho. S.W. ½ W. Ships Bluff W. ½ S. Discharged from the service by reason of expiration of term of enlistment P.O. Carlson (Sorn). Enlisted P.O. Carlson as seaman for three years general service. P.L. 47.6
D. F. Walling
Lieut U.S.N.

From Meridian to 4 P.M:
Clear & cool. Moderate breeze from W.N.W. At 1:00 changed course to W.N.W. At end of watch Low Point bore W.N.W. ½ W. Bamboo Island N.N.W. 7/8 W.
A. T. Lechtritz
Lieut U.S.N.

From 4 to 6 P.M:
Clear & cool. Moderate breeze from W.N.W. at 5:30 changed course to N.W. by W ½ W. At 4:35 mustered crew at quarters.
W. B. Hoggatt
Ensign U.S.N.

From 6 to 8 P.M:
Clear, cool & pleasant. Mod. breeze from W. by N. Mod. sea At 7:07 changed course to W. ¾ N. & at 7:40 to W. ½ N. Midway between land & island on stbd. bow at end of watch. Moon rose at 7:18. Steam along.
F. J. Boerner
Ensign U.S.N.

From 8 P.M to Midnight:
Clear, cool weather. Bright moonlight. Light to gentle breezes from West. At 8:05 called all hands bring ship to anchor, & at 8:33 came to with port anchor off Teng Chau, China, in 5 ¼ fms. soft blue mud, veering to 30 fms. chain. Banked fires. Bearings at anchor: Island Head, Chang-chau Island (P.S.) N ⅞ E, Howki Light N. by W. ⅞ W. Teng-chau Head W. by N. At 12:30 commenced swinging and at 11:05 swung to ebb.
Ships draft fwd. 13.8" aft 15' 10"
D. F. Walling
Lieut U.S.N.

Examined and found to be correct.

T. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Teng-chau, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			E. by S.	W.S.W.	3			30.28	52	51	47		l.s.	Cir Cum.	9	S.
2	"			S.E. by E.	"	3			30.28	50	49	45		"	"	9	"
3	Flood			W.S.W.	"	3			30.28	50	48	43		"	"	9	"
4	"			"	S.W.	3			30.28	50	48	43		"	"	9	"
5	"			"	"	2			30.28	50	48	43		"	"	8	L.S.
6	"			West	W.S.W.	2			30.28	50	48	43		"	"	8	"
7	"			"	"	2			30.30	52	49	45		"	"	9	"
8	"			"	S.W. by S.	2			30.31	54	50	44		"	"	9	"
9	"			W.S.W.	W.S.W.	3			30.32	56	53	46		"	"	9	"
10	"			West	"	3			30.33	56	56	49		l.s.q.	"	9	"
11	"			W. by N.	"	3-4			30.33	59	59	50		"	"	9	"
Noon.	"			W.N.W.	"	3-4			30.34	60	60	51		l.q.	Nons	10	"

Course and distance made good since preceding noon by ~~observations~~, P. log 56 knots. ° tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 7 tons 290 lbs.

Coal remaining on hand at Noon, 66 " 4 "

P. M.														
1	Flood	N.W. by W.	West	3		30.32	61	61	53	l.	Nons	10	S.
2	"	W. by N.	"	3		30.30	62	62	54	"	"	10	"
3	"	"	"	2		30.30	65	64	56	"	"	10	"
4	"	West	W.S.W.	2		30.30	67	65	56	"	"	10	"
5	"	N by W.	S.S.W.	2		30.30	67	65	55	"	"	10	"
6	Ebb	W by S.	"	2		30.30	66	65	54	"	"	10	"
7	"	"	S.W.	2		30.28	63	63	53	"	"	10	"
8	"	W.S.W.	"	2		30.28	61	60	51	"	"	10	"
9	Flood	S.W. by S.	"	3-4		30.30	61	59	50	l.q.	"	10	"
10	"	S.S.W.	"	3-4		30.29	60	58	50	"	"	10	"
11	"	South	SSW.	3-5		30.29	60	58	50	"	"	10	"
Mid.	"	"	"	3-5		30.29	60	58	52	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday October 23d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Clear & cool. Bright moonlight. Gentle breeze from S.W & W.S.W. At 1:10 strength of flood. 4 knots?

A. F. Fechteler
Lieut U.S.N.

From 4 to 8 A. M:
Clear & cool. Light breeze from W.S.W to S.W by S. At 7:30 loosed sail to a bowline. Mod. ground swell from West

W. B. Hoggatt
Ensign U.S.N.

From 8 A. M to Meridian:
Clear, cool & pleasant. Gentle to mod. breeze from S.W. by S. & W.S.W. Squally. Riding to flood tide & wind. At 9:30 equipped battalion & exercised at company drill. Shortened sail at 9:40 & furled sail at 11:30. Sent a boat ashore with an officer to communicate with American missionaries. Ground swell from W.S.W. Banked fires in six boilers.

F. J. Fooks
Ensign U.S.N.

From Meridian to 4 P. M.
Clear, pleasant weather. Light to moderate breezes from West. Fires banked. Current inappreciable. At 3:30 sent down topgallant yards.

A. F. Fechteler
Lieut U.S.N.

From 4 to 8 P. M:
Clear & cool. Light breeze from S.W & S.S.W.

A. F. Fechteler
Lieut U.S.N.

From 8 P. M to Midnight:
Clear cool & pleasant. Gentle to stiff breeze from S.S.W & S.W. Squally. Ship riding between wind & flood tide. Fires banked Bright moonlight

F. J. Fooks
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At anchor in the harbor of Tengchau, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.								Force									
1				South	S.S.W.			3-6	30.28	58	57	52		L.g.	None	10	S
2				S by W.	"			3-5	30.28	58	57	51		"	"	10	"
3				S.S.W.	"			3-5	30.28	57	56	51		"	"	10	"
4				"	"			3-5	30.28	57	56	50		"	"	10	"
5		Clr.		S.W.by W.	"			4	30.28	57	55	50		"	"	10	"
6				W.S.W.	"			4	30.28	57	55	50		"	"	10	"
7				"	"			4	30.29	57	54	50		"	"	10	"
8				"	"			3-4	30.30	57	55	50		"	"	10	"
9				"	S W by S			3-4	30.33	61	58	52		L.S.	Cir strat.	7	"
10				S.W by W.	"			3-4	30.33	61	58	52		"	"	6	"
11				S.W	"			3	30.32	63	60	53		"	"	6	"
Noon.				S W by S.	"			3	30.31	63	61	53		"	"	2	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 1 tons 2120 lbs.

Coal remaining on hand at Noon, 64 " 174 "

P. M.										
1		S.W-by W.	S.S.W.	3	30.30	64	62	54	O.S.Q.	Cir Cum	0	S
2		S.S.W.	"	3-4	30.29	64	62	54	"	"	0	"
3		"	"	3-4	30.29	64	62	54	"	"	0	"
4		S.W.by S.	"	3-4	30.25	63	62	55	"	"	0	"
5		W.S.W.	"	3-4	30.25	62	61	56	"	"	0	"
6		"	"	3	30.24	62	61	56	"	Cum	0	"
7		"	"	3-4	30.24	61	60	56	"	"	0	"
8		W by S.	"	3-4	30.24	61	60	56	"	"	0	"
9		S.W.	"	3	30.24	60	60	56	O.S.	"	0	"
10		"	"	3	30.24	60	59	55	"	"	0	"
11		S.S.W.	"	2	30.24	60	59	55	"	"	0	"
Mid.		E.S.E.	South	2	30.22	59	58	55	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday October 12th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Clear, cool weather. Gentle breezes with stiff to fresh squalls from S. S. W. Current not appreciable. Fires banked.

B. F. Walling
Lieut. U. S. N.

From 4 to 8 A. M:
Clear & cool. Gentle to moderate breeze from S. S. W. Ebb tide. Strength of ebb at 6:00 0.4 knot. Crossed Topgallant yards at 7:50

A. F. Fechteler
Lieut U. S. N.

From 8 A. M to Meridian:
Partly clear, pleasant. Gentle breeze from S. W by S. At 9:30 mustered crew at quarters & exercised all divisions at single-sticks. The Commander with Lieutenants Walling & Fechteler left the ship to pay official visits to Ponies officials on shore. Banked fires.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P. M.
Overcast, cloudy & hazy. Gentle to moderate breeze from S. S. W. Squally. Riding to wind and ebb tide. Banked fires. The Condg Officer returned from an official visit to local authorities

T. J. Loomis
Ensign U. S. N.

From 4 to 8 P. M:
Overcast weather. Gentle to moderate breezes in squalls from S. S. W. Riding to wind. Fires banked.

B. F. Walling
Lieut U. S. N.

From 8 P. M to Midnight:
Overcast & pleasant. Light to gentle breeze from South to S. W. Banked fires.

A. F. Fechteler
Ensign U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At anchor in the harbor of Teng Phau, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				E. by N.	S. E.	2			30.22	60	60	57		O. S.	Cum.	0	S.
2				S. S. W.	S. S. W.	2			30.22	60	61	58		"	"	0	"
3				"	"	2			30.22	60	60	58		"	"	0	"
4				"	"	2			30.21	60	60	58		"	"	0	"
5				S. W.	"	2			30.20	59	58	55		B. S.	Cir. Cum.	2	"
6				W. by S.	"	2			30.20	59	57	54		"	"	4	"
7				"	South	2			30.20	58	57	54		"	Cum. Strat.	7	"
8				West	"	3			30.20	58	56	53		"	"	8	"
9				W. by S.	S. W.	3			30.20	59	57	53		"	"	8	"
10				"	"	2			30.18	61	60	56		"	Cir. Cum.	8	"
11				West	W. S. W.	2			30.18	63	62	57		"	"	9	"
Noon.				S. W. by S.	S. S. E.	2			30.15	65	64	58		"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, 2 tons 60 lbs.

Coal remaining on hand at Noon, 62 " 64 "

P. M.														
1				S. S. W.	S. S. E.	2			30.14	65	64	58	S. E.	Cir. Cum.	9	S
2				"	North	2			30.11	66	65	59	"	"	8	"
3				N. W. by N.	"	2			30.10	66	65	60	"	"	8	"
4				"	"	2			30.10	66	64	60	"	"	8	"
5				"	"	2			30.09	64	61	58	"	"	6	"
6				W. N. W.	"	2			30.09	64	62	60	"	"	5	"
7				"	S. S. W.	2			30.09	64	62	60	"	"	5	"
8				West	"	2			30.08	63	61	58	"	"	6	"
9				"	S. W.	2			30.03	62	61	58	"	"	7	"
10				"	"	3			30.03	62	61	58	"	"	7	"
11				N. N. W.	N. N. W	2			30.03	62	61	58	"	"	6	"
Mid.				North	N by E.	3-5			30.03	61	60	57	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday October 25th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Overcast & cloudy. Light breeze from S. S. W. Smooth sea. Banked fires. Halo around moon.

T. J. Boorman
Ensign U.S.N.

From 4 to 8 A. M:
Fair pleasant weather. Light breezes from S.S.W. & South. At 5:30 set sail to flood. Fires banked

B. F. Wasley
Lieut U.S.N.

From 8 A. M. to Meridian:
Clear & pleasant. Light breeze from S.S.W. to S.S.E. At 9:10 furled sail. At 9:30 exercised at general quarters. At 11:50 Chinese officials from shore visited the ship. Exercised at general quarters.

A. S. Lechtman
Lieut U.S.N.

From Meridian to 4 P. M.
Clear & pleasant. Light breeze from S.S.E. then North. At 2:45 started fires in boilers 2 & 4 for distilling. Banked fires in other boilers.

W. M. Taggatt
Ensign U.S.N.

From 4 to 8 P. M.
Fair & pleasant. Light breeze from North. Started distilling at 5:50. At 5:00 sent down T. G. yards. No appreciable tide.

T. J. Boorman
Ensign U.S.N.

From 8 P. M. to Midnight.
First half of watch fair & pleasant, with light to gentle breeze from S.W. & S.S.W. At 10:00 wind shifted to N.N.W. & at end of watch fair cool & squally, wind gentle to light from N by E. Distilling

A. S. Lechtman
Lieut U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At anchor in the harbor of Teng Chau, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. E.	N. by E.	4-6			30.06	58	55	52		b. s. q.	Cir. Cum.	6	S. L.
2				"	"	4-6			30.08	58	55	50		"	"	7	"
3				N. E. by N.	N. N. E.	4-6			30.08	57	53	50		"	"	7	"
4				N. by E.	"	4-6			30.10	57	52	49		"	"	9	"
5				N. N. E.	"	4-6			30.11	56	52	47		"	"	9	"
6				N by W.	"	4-6			30.11	56	52	47		"	"	9	"
7				"	"	4-6			30.12	54	52	47		"	"	9	"
8				"	"	4-6			30.14	53	51	46		"	"	8	"
9				N. W. by N.	North	3-5			30.16	52	51	46		"	"	7	G.
10				N. W.	"	3-5			30.18	53	52	47		"	"	7	"
11				"	N. N. W.	3-4			30.18	53	52	47		l. p.	"	8	"
Noon.				"	"	3			30.17	53	52	47		"	"	8	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1000 "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, 3 tons 880 lbs.

Coal remaining on hand at Noon, 58 " 1424 "

P. M.																	
1				N. W. by N.	N. W. by W.	4			30.13	55	54	48		b. c.	Cir. Cum.	9	8
2				N. by W.	"	3			30.13	55	54	48		"	"	9	"
3				"	"	3			30.13	56	54	49		"	"	9	"
4				"	"	3			30.13	56	54	49		"	"	9	"
5				N. W.	"	3			30.17	56	54	49		"	"	8	"
6				"	West	3			30.19	56	54	49		"	"	8	"
7				N. W. by W.	"	3			30.20	56	54	49		"	"	8	"
8				West	"	2			30.20	56	58	49		"	"	8	"
9				W. by N.	S. S. W.	1			30.19	53	52	49		"	"	8	"
10				W. N. W.	"	1			30.19	53	51	49		"	"	8	"
11				N. W.	"	1			30.19	53	51	49		"	"	8	"
Mid.				N. N. W.	"	1			30.19	52	51	49		"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday October 26th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced & until 4 A.M.
Clear cool & squally. Mod. to fresh breezes from N by E to N.N.E. Distilling. Banked fires.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M:
Clear & cool. Moderate to fresh breezes from N.N.E. blowing in squalls. Heavy ground swell. Distilling.

H. J. Loomis
Ensign U.S.N.

From 8 A.M. to Meridian:
Clear, cool weather. Gentle breezes with stiff squalls first two hours from North, last two hours, gentle to moderate breezes from N.N.W. Long ground swell from North. At 9:30 inspected at quarters. Exercised 1st 2nd & 3d divs. at single sticks, Powder Div. at stations. At 10:00 sounded fire alarm: all divisions ready in 2m 30s. At 10:10 exercised at preparing to abandon ship. Swung to flood at 11: Distilling.

B. G. Wassing
Lieut U.S.N.

From Meridian to 4 P.M.
Clear & pleasant. Gentle breezes from N.W. by N. Moderate swell from N.E. decreasing towards end of watch. Distilling Fires banked.

A. T. Leetch
Lieut U.S.N.

From 4 to 8 P.M.:
Clear & pleasant. Gentle to light breeze from N.W. by N. to West. 1st cutter struck a grapnel in returning from shore & knocked a hole in stbd. bow. Made preparations for sea. Distilling. Banked fires.

W. B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight:
Clear cool weather. Light airs from S.S.W. Stopped distilles at 8:15. At 8:35 Moon rose. Riding to flood.

B. G. Wassing
Lieut U.S.N.

Examined and found to be correct.

D. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At anchor in the harbors of of Teng Shan & Shui-foo China & on passage to Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				East	South	2			30.20	51	51	48		b. s.	Cir. Cum.	8	3
2				E. by S.	"	2			30.18	51	50	48		"	"	8	"
3				East	"	2			30.14	51	50	47		"	"	8	"
4				E. N. E.	E. S. E.	2			30.14	51	50	47		"	"	8	"
5				N. N. E.	S. S. W.	2			30.18	53	51	49		b. s. z.	Str.	7	"
6	8	2	8.7	E. S. E.	S. S. E.	2			30.21	54	50	49	57	"	"	8	"
7	15	9	7.7	S. E. by E. ½ E.	"	2			30.22	54	51	49	57	"	"	9	"
8	24	4	8.5	"	"	2			30.25	54	52	49	57	"	"	9	"
9	32	2	7.8	S. E. by E.	S. by E.	2			30.27	55	53	48	57	"	"	9	"
10	40	2	8.0	S. E. ¼ E.	"	2			30.27	57	56	50	57	"	"	9	"
11	46	3	6.3	S. E. by S.	"	1			30.26	59	58	52	57	"	"	9	"
Noon.					"	1			30.26	60	59	53		"	"	9	"

Course and distance made good since preceding noon by observations, 47 knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by Bearings N. 37 ° 46' "

Longitude by Bearings E. 121 ° 10' "

Position at 8 P. M. Latitude by Bearings N. 37 ° 33' "

Longitude by Bearings E. 121 ° 39' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1100 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 6 tons 1900 lbs.

Coal remaining on hand at Noon, 51 " 1764 "

P. M.																	
1				East	E. S. E.	1			30.24	61	61	54		b.	Nimbus	10	5
2				"	East	1			30.22	62	61	56		"	"	10	"
3				"	"	1			30.20	62	61	57		"	"	10	"
4				"	"	1			30.20	62	61	57		"	"	10	"
5				S. E. by E.	E. S. E.	1			30.20	61	61	57		"	"	10	"
6			4.63	S. E.	S. E.	1			30.20	61	61	57		"	"	10	"
7	4	0	50.3	S. E. by E. ½ E.	South	2			30.21	60	60	56		"	"	10	"
8	7	5	57.8	E. ½ S.	S. by E.	2			30.21	60	59	54	58	"	"	10	"
9	7	1	64.9	"	"	2			30.22	60	58	53	58	"	"	10	"
10	6	9	71.8	"	"	2			30.23	59	57	52	57	"	"	10	"
11	7	3	79.1	"	S. S. W.	2			30.23	59	58	53	57	b. s.	Cir. Cum.	9	"
Mid.	5	2	84.6	E. S. E. ¼ E.	S. S. E.	2			30.23	60	58	53	57	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday Octobr 27th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M:
Clear & cool. Bright moonlight. Light breeze from South & S.S.E. Banked fires.

A. L. Fechteler
Lieut U.S.N.

From 4 to 8 A.M:
Clear & pleasant. Light breeze from S.S.W. to S.S.E. At 4:30 called all hands up anchor. Got under way and stood out of Tsing-Hiau anchorage at 4:50. At 7:54 put over pat. log reading 0.0. At 5:05 went E.S.E & set fore & aft sail. at 6:18 went S.E. by E½E. p. log 10.3 At 6:28 took in fore & aft sail & at 7:30 set it again. Land in sight on stbd hand during watch. Draft of ship, forwd 13' 7" aft 15' 9". At end of watch Chefoo Cape bore p.s. N.E½E.

W. B. Hoggatt
Ensign U.S.N.

From 8 A.M. to Meridian:
Clear warm & pleasant. Light breeze decreasing to light airs from S. by E. S mouth sea. Steam & fore & aft sail. Steering courses S.E by S to S.E by E. Captain or Navigator at the conn. At 11:03 came to with 15 fms. in Chefoo harbor in 4 fms. water, hard bottom. Bearings at anchor,: Tower S. by W. ½ W., Light House East. Banked fires in six boilers. Ships draft fwd 13' 6" aft 15' 8". At 10:54 took in pat. log reading 46.3. Sent an officer to offer the U.S. Vice Consul the usual courtesies. The U.S Vice Consul Mr. Fuller paid an official visit to the ship.

H. J. Boorman
Ensign U.S.N.

From Meridian to 4 P.M.
Clear pleasant weather. Light airs from E.S.E & East. H.B.M.S. "Alacrity", bearing the flag of Vice Admiral Sir Nowell Salmon came in & anchored. Sent an officer with usual offer which was returned by English Flag Lieutenant. Commander returned visit of U.S. Vice Consul & paid an official visit to Vice Admiral Salmon. Coal lighters came alongside at 2:30. Commenced coaling ship - fires banked.

B. R. Wadleigh
Lieut U.S.N.

From 4 to 6 P.M.
Clear & pleasant. Light airs from E.S.E & S.E. Finished coaling, receiving in all 30 tons coal. Recd visit from Commander of H.B.M.S. "Alacrity"

A. L. Fechteler
Lieut U.S.N.

From 6 to 8 P.M.
Clear & pleasant. Light breeze from South & S by E. At 6:15 called all hands up anchor. Went S.E by E½E. at 6:20. At 6:40 changed course to E½N. P.S. 57.2 Commanding Officer at the conn. Ships draft: fwd 13' 10", aft 15' 11". Coal lighter carried off one coke fender. Finished coaling. Recd 30 tons coal.

W. B. Hoggatt
Ensign U.S.N.

From 8 P.M to Midnight.
Clear cool & pleasant. Starlight & moonlight last half. Light breeze from S. by E, except third hour when S.S.W. Steaming, with fore & aft sail & foresail until 11:45 when took in foresail. Course E. N. until 11:15 when changed to E.S.E¼E At 11:15 Eddy Point bore S½E. distant 2½ miles. Moon rose at 10:30 P.S. 86.6

H. J. Boorman
Ensign U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Chefoo to Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	5	94.1	E.S.E.¼E.	S.S.W.	2-3			30.23	59	59	55	60	L.C.	Cir strax.	7	S.
2	7	8	101.9	"	"	3			30.23	59	58	56	60	"	Cir cum.	6	"
3	7	9	9.8	"	"	3			30.23	60	60	56	61	"	"	4	"
4	7	6	17.4	S.E.&E S.E.	"	2-3			30.23	60	60	56	61	"	"	6	"
5	7	3	24.7	S.½W.	"	2			30.22	60	60	56	61	"	"	4	"
6	7	1	31.8	"	"	2			30.20	62	61	56	61	"	"	7	"
7	7	4	39.2	"	"	2-3			30.19	63	62	58	61	"	"	7	"
8	6	5	45.7	"	"	2-3			30.19	64	63	58	61	"	"	7	"
9	6	6	52.3	"	S by W.	3			30.32	66	63	59	63	"	Cir str.	7	"
10	7	4	59.1	"	"	3			30.32	66	64	59	63	"	"	7	"
11	7	2	66.9	"	"	3			30.30	66	64	59	63	"	Cir cum.	6	"
Noon.	5	7	72.6	"	"	2			30.30	66	64	59	63	"	"	6	"

Course and distance made good since preceding noon by observations, Coasting 126 knots. 3 tenths.

Position at ~~Noon~~ 9:25 a.m.:
- Latitude by D.R. Bearings — N. 36 ° 36 ' "
- Longitude by D.R. Bearings — E. 122 ° 44 ' "
- Latitude by observations of ⊙ — ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — ° ' "

Position at 8 a. m.:
- Latitude by observation — N. 37 ° 07 ' "
- Longitude by observation — E. 122 ° 44 ' "

Position at 8 P. M.:
- Latitude by D.R. — N. 35 ° 37 ' "
- Longitude by P.M. Observation — E. 122 ° 43 ' 30 "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, 12 tons 1510 lbs.

Coal remaining on hand at Noon, 69 " 254 "

P. M.																	
1	6	8	79.4	S.½W.	S.by W.	2			30.30	65	63	59	63	L.C.	Cir	3	S
2	7	5	86.9	"	"	2			30.29	65	63	58	63	"	"	2	"
3	7	3	94.2	"	"	2			30.29	64	62	58	62	"	"	4	"
4	7	4	101.6	"	S.by E.	2			30.29	64	62	58	63	"	"	5	"
5	7	3	8.9	"	"	2			30.26	63	61	56	65	"	"	5	"
6	7	4	16.3	"	South	2			30.27	62	61	57	65	"	"	4	"
7	7	5	23.8	"	S.by E.	1-2			30.26	62	61	57	65	"	"	6	"
8	7	4	31.2	"	"	1-2			30.29	61	60	57	64	"	"	7	"
9	7	0	38.2	"	S.S.E.	2			30.30	61	60	56	64	"	"	6	"
10	7	3	45.6	"	"	2			30.30	61	60	56	65	"	"	5	"
11	7	1	52.6	"	"	2			30.30	62	60	56	65	"	"	5	"
Mid.	6	9	59.5	"	"	2			30.30	62	60	56	65	"	Cum:	4	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday October 28th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.:

Fair, pleasant weather. Bright moonlight. Light to gentle breeze from S.S.W. At 12:15 set foresail, took it in at 3:20 At 3:20 changed course to S.E by E ½ E at 3:45 to S.E. Under steam and fore and aft sail at end of watch. At 1:05 sighted Shantung promontory Light. High land on starboard hand. At 4 Shantung Promontory Lt. bore S. ½ E. Alcatraz Id. S.W. P.L. 17:4

B. F. Waering
Lieut U.S.N.

From 4 to 8 A. M:

Clear and pleasant. Light to gentle breeze from S.S.W. At 4:20 Shantung Light bore abeam P.L. N, changed course to S. ½ W. P.L. 21.9. Took in fore and aft sail.

A. F. Teichmuller
Lieut U.S.N.

From 8 A.M to Meridian:

Generally clear; pleasant. Light to gentle breeze from S by W. At 9:30 mustered crew at quarters. At 9:25 Southeast Point Lt. Ho. bore W ½ N. Under steam along, course S ½ W.. Land in sight on starboard quarter at end of watch.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.

Fair mild and pleasant. Light breeze from S. by W. until last hour when S by E. Steaming course S ½ W. Land in sight on stbd. quarter. P.L. 16

F. J. Boromé
Ensign U.S.N.

From 4 to 6 P.M.

Fair, pleasant weather. Light breezes from S by E and South. Under steam alone on course S ½ W. Several sail in sight. P.L. 16.3

B. F. Waering
Lieut U.S.N.

From 6 to 8 P.M.

Fair and pleasant. Light airs to light breeze from S. by E. Course S ½ W.

A. F. Teichmuller
Lieut U.S.N.

From 8 P.M to Midnight:

Partly clear, pleasant. Light breeze from S.S.E. On course S ½ W.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Chefoo to Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1			59.5	S. ½ W.	S. S. E.	2			30.29	62	61	56	65	b. c.	cum.	1	D
2	7.0		66.5	"	South	2			30.29	63	62	57	65	"	"	1	"
3	7	8	74.3	"	"	2			30.29	64	62	58	64	"	"	1	"
4	8	1	82.4	"	S. S. E.	2			30.29	64	62	58	64	"	"	1	"
5	7	9	90.3	"	S. E. by E.	2			30.28	64	63	59	64	"	"	3	"
6	6	8	98.1	"	S. E.	2			30.27	64	63	60	65	"	"	3	"
7	8	0	6.1	"	"	2			30.28	65	64	60	65	"	"	3	"
8	7	5	13.6	"	"	2			30.29	65	64	61	65	"	"	2	"
9	7	6	21.2	"	S. by E.	3			30.29	66	65	62	65	"	"	2	"
10	6	1	27.3	"	S. S. E.	3			30.29	67	66	62	65	"	"	3	"
11	6	2	33.5	"	S. E.	3			30.29	67	66	62	65	"	"	3	"
Noon.	6 7	2	40.2 47.4	"	"	3			30.29	67	66	62	65	"	"	3	"

Course and distance made good since preceding noon by observations, S ¼ W. 174 knots. 8 tenths.

Position at Noon:
- Latitude by D. R. N. 33 ° 47 ' "
- Longitude by D. R. E. 122 ° 38 ' "
- Latitude by observations of ⊙ N. 33 ° 52 ' "
- Longitude by chronometer from Forenoon Observations of ⊙ E. 122 ° 36 ' "

Position at 8 a. m.:
- Latitude by observation Sumner. N. 34 ° 13 ' "
- Longitude by observation E. 122 ° 38 ' "

Position at 8 P. M.:
- Latitude by D. R. N. 32 ° 55 ' "
- Longitude by D. R. E. 122 ° 35 ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 17 tons 1920 lbs.

Coal remaining on hand at Noon, 51 " 574 "

P. M.																	
1	7	4	54.8	S. ½ W.	S. E. by S.	3			30.25	67	66	63	66	b. c.	cum.	3	S
2	6	7	61.5	"	"	3			30.27	67	66	63	66	"	"	4	"
3	7	5	69.0	"	"	3			30.21	68	67	64	67	"	"	5	"
4	7	6	76.6	"	"	3			30.21	68	67	64	67	"	"	5	"
5	7	2	83.8	"	"	3			30.21	69	68	64	67	"	"	5	"
6	7	1	90.9	"	"	3			30.21	69	68	64	67	"	"	2	"
7	6	7	97.6	"	S. E.	3			30.22	70	68	65	67	"	"	4	"
8	6	3	3.9	"	"	3			30.22	70	68	66	67	"	"	8	"
9	6	0	9.9	"	"	3			30.22	70	68	66	67	"	"	8	"
10	6	1	16.0	"	"	2-3			30.23	69	68	66	67	"	"	8	"
11	6	3	22.3	"	"	2-3			30.22	69	68	66	66	"	Cir Cum.	8	"
Mid.	5	7	28.0	"	"	3			30.21	69	68	66	66	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday October 29th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.

Cloudy but pleasant. Moon shining through clouds Light breeze from South & S.S.E. Smooth sea. Steaming course S½W. P.L. 90-3.

H. J. Toombs
Ensign U.S.N.

From 4 to 8 A. M.

Cloudy weather. Light breezes from S.E. by E. & S.E. Gentle breeze from S.E. At 4:10 set fore & aft sail, took it in at 5:30 & set it again at 7:15. Steering a course S½W. P.L. 21.2

B. F. Waring
Lieut U.S.N.

From 8 A. M. to Meridian:

Weather pleasant. Generally cloudy. Gentle breeze from S. by E. hauling to S.E. by end of Watch. At 9:30 took in & at 11:20 set fore & aft sail. Shifted flying jib. At 9:30 exercised at general quarters. Examined dry gun-cotton & tested Magazine & shell-room flood cocks. Repairing first cutter

A. F. Leverton
Lieut U.S.N.

From Meridian to 4 P. M.

Partly clear, pleasant. Gentle breeze from S.E. by S. Finished repairs to first cutter, rigged it out and secured for sea. On course S½W.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 6 P. M.:

Fair, decreasing to cloudy weather. Heavy cumulus clouds around horizon. Gentle breeze from S.E. by S. Steam & fore & aft sail. Course S½W. P.L. 90.9

H. J. Toombs
Ensign U.S.N.

From 6 to 8 P. M.:

Cloudy, pleasant weather. Gentle breeze from S.S.E. Under steam & fore & aft sail, on course S½W. P.L. 3.9.

B. F. Waring
Lieut U.S.N.

From 8 P. M to Midnight:

Clear & pleasant. Light to gentle breeze from S.E. Steam & fore & aft sail. Course S½W.

A. F. Leverton
Lieut U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At sea on the passage from Shifoo to Shanghai, China & at anchor in the Yangtze River

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	7	33.2	S.W.	S.E.	3			30.20	70	68	66	68	b.s.	Cum.	4	3
2	4	8	38.0	"	"	3			30.20	70	68	66	68	"	"	3	"
3	5	3	43.3	"	"	3			30.20	70	68	66	68	"	"	3	"
4	6	1	49.4	"	"	3			30.20	70	68	66	68	"	"	2	"
5	6	8	56.2	"	"	3			30.19	70	68	66	68	"	"	1	"
6	6	5	62.7	"	E.S.E.	3			30.19	69	68	66	67	"	"	8	"
7	6	3	69.0	"	"	3			30.20	69	68	66	67	"	"	8	"
8	6	1	75.1	"	"	3			30.21	68	67	66	67	"	"	5	"
9	4	3	79.4	S.S.W.	E.N.E.	2			30.22	69	68	69	67	"	Cir Cum.	5	"
10	2	1	81.5	"	"	2			30.23	70	68	67	66	"	"	8	S.E.
11	6	3	87.8	"	"	2			30.22	70	68	67	66	"	"	8	"
Noon.	6	6	94.4	"	"	3			30.22	70	68	67	66	"	"	8	"
	5	2	100.6	"	"	3			30.21	71	69	67	66	"	"	8	"

Course and distance made good since preceding noon by observations, S 4° W. 152 knots. tenths.

Position at Noon:
- Latitude by D. R. N. 31 °21' "
- Longitude by D. R. E. 121 °24' "
- Latitude by observations of ⊙ N. 31 °36' "
- Longitude by chronometer from Forenoon Observations of ⊙ E. 122 °18' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 11 tons 600 lbs.

Coal remaining on hand at Noon, 39 "2214 "

P. M.																	
1	6	1	6.7	S. by W½W.	E. by S.	3			30.11	70	69	67		b.s.w.	Cir Cum.	8	S
2	7	4	14.1	"	"	3			30.14	70	68	66		"	"	7	"
3	7	0	21.1	"	"	3			30.13	70	68	66		"	"	7	"
4	7	1	28.2	S.W. by W½W.	"	2			30.12	70	68	67		o.s.w.	"	7	"
5	6	9	35.1	W.S.W. N.W. ¾ W.	East.	3			30.13	70	68	67	65	"	"	3	"
6	7	2	42.3	N.W. ½ W. N.W.	N.E.	2			30.14	70	68	67	65	"	"	3	"
7	6	0	48.3	Standing in for anchorage	"	2			30.14	70	68	67	66	b.s.w.	"	4	"
8				S.E.	"	2			30.14	70	68	67		"	"	4	"
9				"	"	2			30.14	70	68	67			"	3	"
10				S.E. by S.	"	2			30.14	70	68	67		"	"	0	"
11				S. by E.	"	2			30.15	69	68	67		o.s.w.	"	0	"
Mid.				N.W. by W.	"	2			30.15	70	68	67		b.s.w.	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday October 30th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.:
Generally cloudy, pleasant. Gentle breeze from S.E. Moon rose at 1 A.M. On course S. ½ W.
W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A. M.:
Fair and pleasant. Gentle breeze from S.S.E. Light swell from S.E. Fored aft sail and foresail set. P.L. 75.1
T. J. Foote
Ensign U.S.N.

From 8 A. M to Meridian:
Clear, pleasant weather. Light to gentle breeze from E.N.E. At 8:30 took in foresail, set it again at 10:45. At 9:30 inspected at quarters. Exercised 1st Div. at Machine Gun: 2nd Div. at single sticks, 3rd and Engineers Divs. Pistols. At 11:00 crossed topgallant yards. At 12:55 sighted Shamrishan Is. Lt. Ho. bearing S by W. ½ W. At 8:40 changed course to S.S.W. Got casts of deep sea lead in 13, 16, 13 and 7 fathoms, bottom: mud blk sand white specks. Sighted two junks and a steamer. P.L. 100.6 Light ground swell from S.E.
B. F. Waring
Lieut U.S.N.

From Meridian to 4 P. M.
Clear and pleasant. Light to gentle breeze from E by S. Long swell from East. At 1:00 set topsails and togt sails. At 3:30 took in forsail, M. trysail and spankers. At 3:35 changed course to S.W., P.L. 25.3 and At 3:54 to S.W. by W. ½ W. P.L. 27:4. At 2:25 Amherst Rocks bore abeam, distant 3 Miles
A. T. Freeman
Lieut U.S.N.

From 4 to 6 P. M.:
Partly clear, pleasant. Light to gentle breeze from East to N.E. At 4 P.M. sighted Tungshan Lt. Ship, bearing W. by N., ships head W.S.W. At 4:47 changed course to N.W. ¾ W. P.L. 33.8. At 5:00 called all hands and furled sail. Standing up South Channel of Yangtze River, with the Comdg Officer at the conn. At end of watch Tungshan Lt. bore p.s. S.E. ½ E. ships head N.W.
W. B. Hoggatt
Ensign U.S.N.

From 6 to 8 P. M.
Cloudy with heavy dew. Light breeze from N.E. Standing up Yangtze Kiang until 6:55 when let go port anchor in 4½ fms. water, veered to 30 fms, port chain. P.L. 48.3. Lowered whale-boat for Navigator to take soundings on inshore side of ships Riding to flood tide, strength at 7:50 .8 knot. Bearings at anchor, Nintoan Lt. (p.s.) N by W. ¾ W. distant 3 miles. Ships draft 13'4" forwd 15'6" aft.
T. J. Foote
Ensign U.S.N.

From 8 P. M to Midnight:
Cloudy pleasant weather. Heavy dew. Light breeze from N.E. At 8:20 called all hands and got under way. At 8:36 came to with port anchor in 5½ fms. water, veering to 15 fms chain. Nin Toan Lt. Ship bearing N.N.W. ½ W. distant 3 miles. Banked fires. At 10:58 commenced swinging and at 11:10 swung to flood. Ships draft 13'4" fwd. 15'6" aft.
B. F. Waring
Lieut U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

On the passage from Chefoo to Shanghai China & moored in that port.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. W.	N.N.E.	2-3			30.16	70	69	67	67	L.S.	Cir. Cum.	8	S
2				"	"	2-3			30.16	70	69	67	67	"	"	8	"
3				"	"	2-3			30.12	69	69	67	67	"	"	8	"
4				N W by N	"	2-3			30.12	69	69	68	67	L.C.S.	Cirrus.	1	"
5				N.E.	"	3			30.14	69	69	67		"	"	1	"
6			48.3	N. W by W½ W.	"	3			30.15	69	69	67		"	"	2	"
7	6	7	55.0	Standing up Yang-tse River.	E. N.E.	3			30.15	69	69	67		L.S.	Cum.	3	"
8	8	9	63.9	"	"	2			30.16	69	69	67		"	"	3	"
9				"	"	3			30.17	69	68	67		"	"	2	"
10				East	"	3			30.17	70	69	68		"	"	1	"
11				"	"	3			30.15	71	70	69		"	"	1	"
Noon.				"	"	3			30.13	71	70	69		O.S.	"	0	"

Course and distance made good since preceding noon by observations, Various 80 knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, ~300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 5 tons 1260 lbs.

Coal remaining on hand at Noon, 34 " 954 "

P. M.														
1	Flood	East	East	3-4	30.11	72	71	69	b.cg.	Cum.	1	5		
2	"	North	"	3-5	30.09	72	71	69	"	"	1	"		
3	"	N.N.W.	"	3-5	30.09	72	71	69	"	"	1	"		
4	Ebb	W.N.W.	"	3-4	30.09	72	71	69	"	"	1	"		
5	"	W. by N.	"	3-4	30.10	71	70	68	"	"	1	"		
6	"	"	N.N.E.	3-4	30.10	71	70	68	"	"	1	"		
7	"	N.N.W.	"	3-4	30.10	71	71	69	O.S.d.g.	"	1	"		
8	Flood	E by N.	"	3-4	30.10	71	70	68	"	"	1	"		
9	"	East	"	3-4	30.10	71	69	68	"	"	0	"		
10	"	"	N.E.	3-4	30.10	70	70	68	"	"	0	"		
11	"	"	"	3-4	30.11	70	70	68	"	"	0	"		
Mid.	"	"	"	3	30.11	70	70	68	"	"				

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday October 31st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Clear & pleasant until last hour, when cloudy with light drizzling rain at end of watch. Light to gentle breeze from N.N.E. Ebb tide. Strength of ebb at 7 o'clock, 2 knots. Fires banked.

A. F. Fechteler
Lieut U.S.N.

From 4 to 8 A. M:
Cloudy with light drizzling rain first part. Light to gentle breeze from N.N.E. to E.N.E. At 5:50 called all hands, got under way & stood up channel the Captain at the conn. At 7:47 took a pilot on board & stood in for Entrance to Wosung Rides. Expended one (1) 10 lb charge for 9 in gun.

W. B. Hoggatt
Ensign U.S.N.

From 8 A. M to Meridian:
Cloudy, Gentle breeze from E.N.E. Standing up Yangtse & Woosung rivers, Pilot at the conn. At 9:40 Harbor-master came on board & at 9:55 came to anchor. At 10:00 weighed anchor & shifted berth. Moored ship & put on Mooring swivel, 30 fms. on stbd. Chain & 45 fms port chain, 45 fms. water. Exchanged numbers with U.S.S. "Marion" & "Omaha" The Sundry Officer paid an official visit to the Commander-in-chief. Pat log read 65.0 Bearings ~~from Telegraph station~~ Dock N 1/8 E - Ship's Head W 3/4 S.

W. J. Sowens
Ensign U.S.N.

From Meridian to 4 P. M.:
Cloudy, pleasant weather. Gentle breezes from East with moderate & stiff squalls. Received an official visit from U.S Consul General J.S. Kennedy accompanied by Vice-Consul Emmons, also an officer of H.B.M.S. "Mutine" Recd from U.S.S. "Marion" J. G. Toleffsen (sea) returned from U.S. Hospital at Yokohama. Scrubbed ship outside. Hoisted out steam-cutter. Unbent light sails, flying jib & foretopmast staysail. Riding between wind & tide.

B. T. Walling
Lieut U.S.N.

From 4 to 8 P. M:
Cloudy with light passing showers last two hours. Light to gentle breeze from East & N.N.E. Riding to ebb tide. Fires in six boilers. Slack water at 7:15

W. J. Sowens
Ensign U.S.N.

From 8 P. M. to Midnight:
Overcast. Gentle breezes, with moderate squalls & passing showers from East. Riding to the flood. Current 2 knots.

B. T. Walling
Lieut U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtsz River, at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			E. by N.	E. N. E.	3			30.10	70	69	68		0.9.	Cum nim.	0	S
2	Ebb			N. N. W.	"	3-4			30.10	70	69	68		0.c.r.g.	"	0	"
3	"			W. by N.	E. by N.	3-5			30.09	70	69	68		"	"	0	"
4	"			"	"	3-5			30.09	70	69	68		0.cg.l.	"	0	"
5	"			"	East	3-5			30.08	70	69	68		0.c.g.N.	"	0	"
6	"			West	"	3-4			30.08	70	69	68		"	"	0	"
7	"			"	"	3-4			30.08	70	69	68		"	"	0	"
8	"			"	E. S. E.	3-4			30.08	70	69	68		"	"	0	"
9	Flood			East	S. E.	3			30.10	70	69	68		"	"	0	"
10	"			"	"	3			30.10	71	70	68		"	"	0	"
11	"			"	"	3			30.10	71	70	69		b.c.q	"	2	"
Noon.	"			"	"	2			30.08	72	70	69		b.s.	Cum.	4	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, 1 tons 60 lbs.

Coal remaining on hand at Noon, 33 " 904 "

P. M.													
1	Flood		E by N.	E. b. E.	2		30.07	72	71	69	0.c.	Cum	0	S
2	Ebb		"	"	2		30.06	73	70	69	b.c.	"	1	"
3	"		S. W. by W.	"	2		30.05	73	71	69	"	"	1	"
4	"		West	"	2		30.03	73	71	69	"	"	2	"
5	"		"	"	2		30.01	71	71	69	"	"	2	"
6	"		"	S. E.	2		30.01	71	71	69	"	"	3	"
7	"		"	"	2		30.00	71	71	70	b.s.l.	"	6	"
8	"		"	"	2		30.00	71	71	70	"	"	2	"
9	Flood		East	"	2		30.00	71	70	70	0.c.r.	Cum nim.	0	"
10	"		E by S.	S. W.	2		30.00	71	70	69	"	"	0	"
11	"		"	West	2		30.00	71	70	69	"	"	0	"
Mid.	"		East	"	2		30.00	71	70	69	0.s.d.	"	0	"

under the command of Commander F. F. Jewell, U. S. Navy,

Thursday November 1st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast & cloudy. Last three hours squally & generally rainy. Wind gentle to light from E. N. E. & E. by N. At 2:00 swung to ebb.

A. F. Teschner
Lieut U.S.N.

From 4 to 8 A. M.
Overcast, cloudy & rainy. Gentle to moderate breeze from E. S. E., last hours squally. Riding to ebb tide. Fires spread in six boilers.

F. J. Boorman
Ensign U.S.N.

From 8 A. M to Meridian:
Overcast with drizzling rain,- clearing last hours. Light to gentle breezes from S. E. Ensign Hugh Rodman, U.S. Navy reported for duty. At 9:30 inspected at quarters & had divisional instruction. Discharged from the ship & the Naval Service Ah Kong (Las) at his own request, he waiving all claim for Consular aid & public assistance. Commander left the ship to pay official visits upon the "Marion" "Omaha" & U.S. Consul General. At 9:30 swung to flood.

D. F. Wagner
Lieut U.S.N.

From Meridian to 4 P. M.
Cloudy. Light breezes from E. S. E. At 2:00 swung to ebb. Fires banked. At 3:50 started fires for distilling

A. F. Teschner
Lieut U.S.N.

From 4 to 8 P. M.
Cloudy weather. Light breezes from S. E. Lightning to Southward. Threatening rain. Riding to the ebb. Current 1.8 knots.

D. F. Wagner
Lieut U.S.N.

From 8 P. M to Midnight:
Cloudy. Rainy. Light breeze from S. W. & West. At 9:00 swung to flood: At 8:05 began running water into tanks. Distilling

A. F. Teschner
Lieut U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtsz River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			E by N.	N.W.	3			30.00	69	68	66		b.s.g.h.	Cir Cum.	4	3
2	Ebb			West	"	3-5			30.00	67	66	64		"	"	2	"
3	"			W. by N.	West	3-5			29.99	65	64	62		o.c.g.	"	0	"
4	"			"	"	3-5			29.99	65	62	60		"	"	0	"
5	"			"	W.N.W.	3-5			29.99	62	60	59		"	Cum.	0	"
6	"			"	N.W.	2-4			30.00	62	60	58		"	"	0	"
7	"			"	"	2-4			30.02	60	59	57		"	"	0	"
8	"			"	"	2-4			30.03	59	58	56		"	"	0	"
9	Flood			N.W. by W.	"	4-5			30.04	59	58	56		"	"	0	"
10	"			East	"	4-5			30.04	61	59	57		"	"	0	"
11	"			"	"	4-5			30.03	63	60	58		b.c.	Cir Cum.	2	"
Noon.	"			"	"	4-5			30.03	63	60	58		"	"	3	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1000 "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, 3 tons 1510 lbs.

Coal remaining on hand at Noon, 29 " 1684 "

P. M.														
1	Flood		E. by N.	N.W.	4-6		30.02	64	61	59	b.s.g.	Cum Nim.	2	S
2	"		"	"	4-6		30.01	64	61	59	"	"	2	"
3	Ebb		W.N.W.	"	4-5		30.00	64	61	59	"	"	3	"
4	"		"	"	4		30.00	63	60	58	"	"	8	"
5	"		W by N.	"	4		30.01	59	67	54	o.s.g.	"	0	"
6	"		"	W.N.W.	4		30.02	58	57	54	"	"	0	"
7	"		"	"	4		30.03	57	57	53	"	"	0	"
8	"		"	"	4		30.05	57	56	53	"	"	0	"
9	Flood		W.N.W.	"	4		30.05	57	56	53	"	"	0	"
10	"		East	"	4		30.10	57	57	53	"	"	0	"
11	"		E by S.	"	4		30.10	57	57	53	"	"	0	"
Mid.	"		East.	"	4		30.10	56	57	53	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday November 2nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 12 till 4 A. M.

Cloudy & overcast, gentle to moderate breeze from N.W. & West, with occasional puffs. Finished swinging to ebb at 1:30 Distilling

Hugh W. Rodman
Ensign U.S.N.

From 8 to 12 A. M:

Cloudy. Cool. Clearing towards end of watch. Moderate to stiff breeze from N.W. Flood tide. Strength of flood at 11:00 2.5 knots. At 9:30 inspected at quarters. Exercised 1st & 2nd Divs at single sticks, 3d Navigators & Engineers, rifles. Recd visits from Comdg Officers of "Omaha" & three English Men-of-war. Began painting ship. By order of Commander, placed A. Lundquist (Bugler) in double irons for ten days, for violence to officer of deck.

A. T. Leonard
Lieut U.S.N.

From 4 to 8 A. M.

Cool. cloudy weather. Gentle to stiff breezes from West to N.W. Riding to the ebb.

B. F. Wakefield
Lieut U.S.N.

From Meridian to 4 P. M.

Cloudy. Moderate to fresh breezes in moderate squalls from N.W. Finished swinging to ebb at 2:30. Finished painting outside of ship & painted hammock cloths. Comdg Officer of "Marion" paid an official visit to this vessel. Distilling

Hugh W. Rodman
Ensign U.S.N.

From 4 to 8 P. M.

Cool. Cloudy. Moderate breeze from W.N.W. Ebb tide. Distilling. Banked fires.

A. T. Leonard
Naval Cadet U.S.N.

From 8 P. M. to Midnight

Overcast; moderate breeze from W.N.W. with occasional squalls. Finished swinging to flood at 9:25. Stopped distilling at 11:50 & half banked fires.

Hugh W. Rodman
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			E. by N.	W.N.W.	4-5			30.08	57	56	54		o.s.q.	Cum.	0	3
2	"			"	"	4			30.08	57	56	54		"	"	0	"
3	Ebb			N.W.	"	4			30.10	56	55	54		"	"	0	"
4	"			West	"	3-4			30.10	56	55	54		"	"	0	"
5	"			"	"	3			30.10	56	54	52		"	"	0	"
6	"			W. by N.	"	2-3			30.09	56	56	53		o.q.	"	0	"
7	"			"	"	2-3			30.10	56	54	51		"	"	0	"
8	"			West	West	2-3			30.11	55	53	51		"	"	0	"
9	"			"	"	3			30.14	55	54	51		"	"	0	"
10	"			W.N.W.	"	3-4			30.15	55	54	51		o.s.q.	"	0	"
11	Flood			East	"	3-5			30.14	57	56	54		b.s.q.	"	0	"
Noon.	"			.	"	3-4			30.12	58	57	54		"	"	1	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1200 "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, 1 tons 1220 lbs.

Coal remaining on hand at Noon, 28 " 414 "

P. M.													
1	Flood		E. by N.	West	4		30.11	59	56	54	54	b.s.q.	Cum. 2 3
2	"		East	"	4		30.09	59	56	54	54	"	" 2 "
3	"		N.N.W.	"	4		30.09	59	57	54	54	"	" 2 "
4	Ebb		West	W. by N.	4		30.09	59	57	53	54	"	" 2 "
5	"		"	"	4		30.11	58	57	54		b.s.	" 3 "
6	"		"	"	3		30.11	58	57	54		"	" 3 "
7	"		W. by N.	"	3		30.12	58	57	54		"	" 5 "
8	"		West	"	3		30.13	57	56	53		"	" 8 "
9	"		"	West	2		30.14	56	55	53		"	cir cum. 3 "
10	"		"	"	3		30.15	56	55	53		"	" 7 "
11	Flood.		East	"	2		30.15	57	56	54		"	" 8 "
Mid.	"		E. by S.	"	2		30.15	58	57	55		"	" 8 "

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday November 3d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Cloudy, cool & squally. Moderate to stiff breeze from W. N. W.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A. M.:
Cool, overcast & cloudy. Light to gentle breeze from W. N. W. & West. Ebb tide. At 7:35, Flagship made signal 61 H.H. Crossed topt yards. Received & issued to crew 103¾ lbs. fresh beef, 103¾ lbs. fresh vegetables & 83 lbs fresh bread. Banked fires.

A. F. Fechteler
Lieut U.S.N.

From 8 A. M to Meridian:
Overcast, cloudy & cool, gentle to moderate breeze from West, with occasional squalls. Finished swinging to flood at 10:20. P.A. Eng. J. H. Barton U.S.N. reported for duty on this vessel. At 11:00 went to quarters & served out clean hammocks. At 9:30 made sick report by signal "i" answered.

Hugh H. Rodman
Ensign U.S.N.

From Meridian to 4 P. M.:
Cloudy & cool. Mod. breeze from West & W. by N. Sent liberty party ashore. Shellacked steerage Country. Rec'd in Pay Dept 19200 Mex. dollars.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P. M.:
Cloudy to clear, gentle breeze from W. by N.

Hugh H. Rodman
Ensign U.S.N.

From 8 P. M to Midnight:
Clear & cool. Light breeze from W. & S. At 10:15 swung to flood. At 9:00 strength of ebb 1.2 knots.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			East	West	2			30.14	59	58	55	54	b.s.	Clear.	10	B.
2	"			"	"	2			30.	59	58	55	54	"	"	10	"
3	Ebb			West	"	2			30.	59	58	55	54	"	"	10	"
4	"			"	"	2			30.	59	58	55	54	"		10	"
5	"			"	"	2			30.		55	53	52	"	Cir Cum.	8	"
6	"			"	"	2			30.		55	53	52	"	"	9	"
7	"			"	"	2			30.		55	53	52	f	Clear	10	"
8	"			"	"	2			30.		55	53	52	"	"	10	"
9	"			"	W. by N.	3			30.	16	57	56	54	b.s.	Cir Cum.	9	"
10	"			W. by N.	W. N. W.	3			30.	16	59	58	55	"	"	7	"
11	Flood			E. by N.	N.W.	3			30.	15	61	59	56	"	"	6	"
Noon.	"			East.	"	3			30.	14	62	60	57	"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2700 "

Coal consumed during the preceding 24 hours, 1 tons 140 lbs.

Coal remaining on hand at Noon, 27 " 274 "

P. M.												
1	Flood.	East	N.W.	3	30.12	64	62	58	b.s.	Cir Cum.	7	B.
2	"	E. by N.	"	3	30.10	64	62	58	"	"	7	"
3	"	E. N. E.	"	3	30.09	64	62	58	"	"	7	"
4	Ebb	W by N.	"	3	30.09	64	63	58	"	"	5	"
5	"	"	"	3	30.11	64	63	59	"	"	5	"
6	"	West	"	2	30.11	63	62	58	"	"	6	"
7	"	"	"	2	30.12	62	62	58	"	"	6	"
8	"	"	"	2	30.12	62	62	58	"	"	6	"
9	"	W. by N.	"	1	30.12	60	60	57	"	"	9	"
10	"	"	South	1	30.12	60	60	57	"	"	9	"
11	Flood	E. by N.	"	1	30.12	60	59	57	"	"	9	"
Mid.	"	"	"	1	30.12	60	59	57	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday November 4th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 P. M.:
Clear, cool & pleasant. Light breeze from West. At 7:45 swing to ebb.

T. J. Loomis
Ensign U.S.N.

From 4 to 8 P. M.:
Clear & pleasant, light breeze from West. Recd on board on Pay Dept. 83 lbs. fresh bread. At 7:25 flagship made tiller & uniform signal "Geog pennant 611". Answered).

From 8 P. M. to Meridian:
Ensign U.S.N.
Clear & pleasant. Gentle breeze from W. by N. to N.W. At 9:30 mustered crew at quarters. The Comdg Officer inspected the ship. After quarters called all hands to muster, read articles of war & Squad, U. S. M. C., Nos 6 & 7, then had general muster. G. Offenberg (OS) absent without leave. John Williams (Seaman) returned from liberty drunk & was placed under Sentry's charge to sober, by order of the Comdg Officer. Swung to flood at 11:05 P. M. Strength of flood at 9:00, 1.2 knots. of ebb at 2 A. M. 2.5 knots.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P. M.
Clear & pleasant. Gentle breeze from N. W. Slack water at 3:10. Swung to ebb at 3:45. Sent liberty party ashore

T. J. Loomis
Ensign U.S.N.

From 4 to 8 P. M.:
Clear & pleasant. Gentle to light breeze from N. W. At 6:00 strength of ebb 3.0 knots.

W. B. Hoggatt
Ensign U.S.N.

From 8 P. M. to Midnight:
Clear, cool & pleasant. Light airs from South. At 11:00 swung to flood.

T. J. Loomis
Ensign U.S.N.

Examined and found to be correct.

C. D. Calloway
Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			East	West	2			30.12	59	59	56	b.c.		Cir Cum	9	S
2	"			E by N.	W.N.W.	2			30.12	58	58	56	"		"	9	"
3	"			"	"	1			30.10	57	57	55	"		"	9	"
4	Ebb			"	"	1			30.10	57	56	54	"		"	9	"
5	"			W. by N.	W. by N.	2			30.09	57	56	54	"		"	9	"
6	"			"	N.W. by W.	3			30.09	56	55	53	"		"	9	"
7	"			"	W. by N.	3			30.09	55	55	53	"		"	9	"
8	"			"	N.N.W.	3			30.11	56	55	53	b.c.z.		"	9	"
9	"			"	N.W.	2			30.12	60	57	55	"		"	7	"
10	"			"	"	2			30.13	60	59	57	"		"	7	"
11	"			West	W.N.W.	2			30.13	62	61	57	"		"	7	"
Noon.	"			"	"	2			30.11	63	62	57	"		"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, 2 tons 240 lbs.

Coal remaining on hand at Noon, 25 " 34 "

P. M.											
1	Flood	East	E by N	1	30.07	64	63	59	l.s.z.	Cir Cum.	7	S
2	"	E.N.E.	"	1	30.08	65	64	60	"	"	7	"
3	"	"	North	1	30.07	65	64	60	"	"	7	"
4	"	"	"	2	30.07	65	64	59	"	"	6	"
5	"	N.W. by N.	N.E.	2	30.07	63	63	58	"	"	6	"
6	Ebb	West	"	1	30.05	63	62	58	"	"	7	"
7	"	"	"	1	30.09	63	62	59	"	"	9	"
8	"	"	"	1	30.09	63	62	59	"	"	9	"
9	"	"	Calm	0	30.01	62	62	58	b.s.	"	8	"
10	"	"	"	0	30.10	60	60	57	"	"	8	"
11	"	"	"	0	30.10	59	59	57	"	"	8	"
Mid.	Flood	North	"	0	30.10	59	59	57	"	"	8	"

under the command of Commander F. F. Jewell, U. S. Navy,

Monday November 5th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Clear, cool & pleasant. Light airs from West & W.N.W. At 3:00 started fires in boilers nos 1, 3, 5, 6, 7 & 8 Slack water at end of watch & swinging to the ebb tide.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 A. M:
Partly clear, hazy & pleasant. Light to gentle breeze from W by N. to N.W. by W. At 6:00 began to unmoor; hove up stbd anchor & hove in port chain to 30 fms. & took off mooring swivel. By order of the Comdg Officer, released J. Williams (sea) from sentry's charge. At 7:30 Flagship made signal 5456. It could not be read on account of fog until after "Omaha" loosed sails. Answd & made Int. 4363. Flagship answered: Yes. they made Int. 2259 Flag answered "yes". Reid & issued to crew 103¾ lbs each fresh beef & vegetables & 83 lbs. fresh bread.

W. B. Hoggatt
Ensign U.S.N.

From 8 A. M to Meridian:
Clear, warm & pleasant. Light breeze from N.W. & N.N.W. Hazy. At 10:05 called all hands up anchor, at 10:14 got under way & shifted berth to P. & O. No 5 buoy. At 10:45 made Int. 4457, Flag answered. "Yes". Fires in six boilers left to die out. At end of watch swung to flood. At 9:30 Musters & inspected at quarters. Found following men absent without leave: Wm Brannagan, (S. Hot), Walter J. Bayley, (W. Tender) Albert Dillman (S. app 2 C.) John B. Dougherty (O. seaman) Wm O'Doherty (seaman) & John Sweeney (O. seaman). By order Comdg Officer, placed Geo Offenberg (O. seaman) in double irons for five (5) days for being absent without leave. J. W. Auld (Lds) returned from leave 15 hours over time, & Andrew Spain (Mach) 19 hrs. overtime.

T. J. Boorman
Ensign U.S.N.

From Meridian to 4 P. M.:
Clear & pleasant. Light airs & breeze from East to North. L. T. E. Turner (seaman) J. O'Doherty (seaman) & P. McMahon (O.S.) returned from liberty over time & drunk & by order of Comdg Officer were placed under sentry's charge to sober. Riding to flood. Set up f. t. g. & royal stays

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P. M.:
Clear & pleasant. Light breeze from North, shifting & decreasing to light airs from N.E. At 5:30 swung to ebb. Strength of ebb at 7:00, 1.3 knots. By order of Comdg Officer, placed Robert Doyle (2 C.) under sentry's charge for being drunk on board ship.

T. J. Boorman
Ensign U.S.N.

From 8 P. M. to Midnight:
Clear, cool & pleasant. Calm, & light airs from N.E. Slack water at 11:30 & commenced swinging to the flood tide.

Examined and found to be correct.

C. S. Craig.
Naval Cadet U.S.N.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Shanghai Harbor, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			E. by N.	S.W.	2			30.10	58	58	56		b.s.	Cir. Cum.	8	S
2	"			"	"	2			30.10	58	58	56		"	"	8	"
3	"			"	"	2			30.10	58	58	56		"	"	8	"
4	"			"	Calm	0			30.10	58	58	56		"	"	8	"
5	"			"	"	0			30.09	57	56	54		"	"	9	"
6	Ebb			West	"	0			30.09	58	56	54		b.c.f.	"	9	"
7	"			"	"	0			30.09	58	56	54		"	"	9	"
8	"			"	"	0			30.10	58	56	54		"	"	9	"
9	"			"	"	0			30.12	59	58	56		"	"	9	"
10	"			"	"	0			30.15	61	60	57		b.s.z.	"	8	"
11	"			"	"	0			30.15	64	62	58		"	"	9	"
Noon.	Flood			E. by N.	"	0			30.15	64	62	58		b.z.	Nonq.	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2100 "

Coal consumed during the preceding 24 hours, tons 1300 lbs.

Coal remaining on hand at Noon, 24 " 974 "

P. M.												
1	Flood	E. by N.	East	1		30.10	65	65	58	b.s.	Cir Cum.	9
2	"	"	"	1		30.10	66	65	58	"	"	9
3	"	"	"	1		30.10	65	65	58	"	"	9
4	"	"	E.N.E.	2		30.10	66	65	58	"	"	9
5	"	"	East	2		30.09	64	64	59	"	"	9
6	Ebb	West	"	1		30.10	64	64	60	"	"	9
7	"	W by S.	S.E.	1		30.11	62	62	58	"	"	9
8	"	"	"	1		30.12	61	61	57	"	"	8
9	"	West	S.S.E.	1		30.15	60	60	57	"	"	8
10	"	"	"	1		30.15	60	60	57	"	"	8
11	"	"	"	1		30.15	59	59	57	"	"	8
Mid.	"	"	"	1		30.15	59	59	57	"	"	8

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday November 6th, 1855.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Clear, pleasant weather. Light breezes from S.S.W. & calms. Riding to the flood. Current 2.4 knots.

D. R. Wadding
Lieut U.S.N.

From 4 to 8 A. M:
Clear & pleasant. Fog over land. Calm. J. Carberg (O.S.) & L. L. Elzy (O.S.) returned 18 hours over time, & B. Fountain, (C. S. M.) 17½ hrs. over time. Rec'd in Pay Dept for issue to crew 83 lbs. fresh bread. Examined dry gun-cotton primers & found them in good condition. By order of Comdg Officer released W. O'Doherty (Sea) & Chas McMahon (O.S.) from sentry charge, they being sober. Riding to ebb tide. A blue ensign was passed up the rivers At 7:25 Flagship made Sig. 645. Answered

F. J. Sogers
Ensign U.S.N.

From 8 A. M to Meridian:
Clear & pleasant. Calm. Hazy part of the watch. At 9:30 mustered at quarters. The following men being absent without leave. W. Bravagay (S.H.), T. Broderick (Sea), A. Dittmar (Sea ap. 2nd class) J. B. Dougherty (O.S.) A. Donaldson (S.H.) P. Emery (S.A. 1st C.) J. Horan (W. Tdr.) A. Hansen (S.F.) H. E. Harned (O.S.) J. Jurgens (S.F.C.) M. Lear (S.B.M.) P. McDonough (S.H.) J. Patton (Sea) W. Stinniers (P.M.) J. Sweeney (O.S.) G. A. Schwarres (O.A.S.) W. A. Smith (Sea) F. Wallace (S.Top). At 9:45 sounded the assembly for battalion & formed with heavy marching equipments & exercised at battalion drill. Slack water at noon & swung to the flood. Strength of ebb current at 8:45, 1.9 knots. Enlisted for the cruise, Tertuno Tsutergelis with rate of landsman

C. L. Craig.
Naval Cadet U.S.N

From Meridian to 4 P. M:
Clear pleasant weather. Light airs from East, Light breezes from E. N. E. Riding to the flood. Current 2.6 knots.
Received in Engineer's Dept Ten (10) 10-gallon oil Cans

D. R. Wadding
Lieut. U.S.N.

From 4 to 8 P. M:
Clear & pleasant. Light breezes & light airs from East & S. E. Slack water at 6:00 & swung to the ebb tide.

C. L. Craig.
Naval Cadet U.S.N.

From 8 P. M to Midnight:
Clear, pleasant weather. Light breezes from S.S.E. Riding to the ebb-current 2.2 knots.

D. R. Wadding
Lieut U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Bugs Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			E. by N.	Calm.	0			30.14	60	59	57		b.	Clear	10	3
2	"			"	"	0			30.13	60	59	57		"	"	10	"
3	"			"	"	0			30.12	59	59	57		"	"	10	"
4	"			"	"	0			30.12	59	58	56		b.s.	cum.	9	"
5	"			"	"	0			30.12	58	58	56		b.c.w.	"	9	"
6	Ebb			W. by S.	"	0			30.13	57	57	55		"	"	9	"
7	"			West	"	0			30.15	58	57	55		b.s.f.	"	9	"
8	"			"	"	0			30.15	58	57	56		"	"	9	"
9	"			"	"	0			30.18	62	60	58		"	"	9	"
10	"			"	"	0			30.19	63	61	58		"	"	9	"
11	"			"	"	0			30.19	64	61	59		"	"	9	"
Noon.	"			"	"	0			30.18	65	61	59		"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1800 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 24 " 574 "

P. M.														
1	Flood	E. by N.	E by N.	2		30.18	66	66	60	b.s.	Cir Cum.	9
2	"	"	"	2		30.16	66	65	60	"	"	9
3	"	"	"	2		30.15	66	65	60	"	"	9
4	"	"	"	2		30.14	65	65	60	"	"	9
5	"	"	"	2		30.15	64	64	60	"	"	9
6	"	"	"	1		30.16	64	63	61	"	"	9
7	Ebb	W. by S.	"	1		30.16	63	63	61	"	"	9
8	"	West	"	1		30.17	63	63	61	"	"	9
9	"	"	"	1		30.19	62	62	61	"	"	8
10	"	"	"	1		30.19	62	62	61	"	"	7
11	"	"	"	1		30.19	62	62	61	b.	Clear	10
Mid.	"	"	"	1		30.19	62	62	61	"	"	10

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday November 7th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Clear & cool. Calm. At 12:30 swung to flood.

A. F. Jewett
Lieut U.S.N.

From 4 to 8 A. M.:
Clear & pleasant first two hours, foggy & pleasant remainder of watch. Calm all watch. Slack water at 5:35 & swung to the ebb tide. Received on board in pay Dept 103¾ lbs fresh beef, 103¾ lbs fresh vegetables & 83 lbs fresh bread. Flagship made time & dress signal 645"

C. S. Craig.
Naval Cadet U.S.N.

From 8 A. M to Meridian:
Clear & pleasant. Calm. At 9:30 inspected at quarters. Absent without leave Wm Branagan (S.H.), J. B. Dougherty (O.S.), A Dittmar, (S.A. V.S.) P. Emery (S.A.I.C.) N. Lear (S.B.M.), A. Hansen (S.A.G.), W.A. Smith (Seaman), J Patton (Seaman), J. Wallace (S.Top) T. Broderick (Seaman), H. S. Harned (O.S.), A. Donaldson (S.H.) W. Shuniers (P.M.), G. A. Schwoerer (S.A.I.C.), J Johnson (Seaman), T. E. Passmore (2 S.G.) B. E. Kendricks (Oiler), H. Lyndon (Seaman), E. J. Anderson (Barber), M. C. Reilly (2 C.G.), Wm Smith 2nd (E.S.). Instructed First & Powder Divisions. At 10. called away boats, armed & equipped & instructed boats crews at stations. Riding to ebb. Current 2 Knots. W. Shuniers (P.M.) was brought on board by the police, 53½ hours over time.

B. T. Walling
Lieut U.S.N.

From Meridian to 4 P. M.:
Clear & pleasant. Light breeze from E. by N.
T. Broderick (Seaman) returned on board 48 hrs. after expiration of leave. Finished swinging to flood at 10:35

Hugh W. Robinson
Ensign U.S.N.

From 4 to 8 P. M.:
Clear & pleasant. Light airs from E. by N. At 5:30 sent down top-gallant yards in obedience to signal. At 6 swung to ebb. J. Patton, (Seaman) J. B. Dougherty (O.S.) & A. Dittmar, (S.A.V.C.) returned over time.

B. T. Walling
Lieut U.S.N.

From 8 P. M to Midnight:
Clear & pleasant; light airs from E. by N. Riding to ebb.

Hugh W. Robinson
Ensign U.S.N.

Examined and found to be correct.

C. H. Calloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head.													
A. M.																	
1	Ebb.			West	S.E.	1			30.18	61	60	58		b.w.	Clear	10	S
2	Flood			E. by N.	"	1			30.18	60	59	57		"	"	10	"
3	"			"	Calm	0			30.17	60	59	58		"	"	10	"
4	"			"	"	0			30.17	60	59	58		b.s.w.	Cum	9	"
5	"			East	"	0			30.16	59	59	58		"	"	9	"
6	"			E.S.E.	"	0			30.16	60	58	57		"	"	9	"
7	Ebb			W. by S.	E. by N.	1			30.18	61	59	59		b.c.	cir. cum.	9	"
8	"			West	"	1			30.20	62	61	60		"	"	9	"
9	"			"	"	1			30.21	64	65	60		"	"	9	"
10	"			"	"	1			30.23	66	65	61		"	"	8	"
11	"			W by S.	E.S.E.	1			30.23	67	67	63		"	"	8	"
Noon.	"			"	"	1			30.22	67	69	63		"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1500 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 24 " 174 "

P. M.														
1	Flood	E by S.	S.S.E.	1			30.22	70	70	64	b.s.	cir. cum.	5	S
2	"	East	"	2			30.20	69	69	63	"	"	5	"
3	"	"	East	2			30.19	67	69	61	"	"	5	"
4	"	"	"	2			30.19	67	66	61	"	"	5	"
5	"	"	"	2			30.20	65	65	60	"	"	5	"
6	"	E by N.	E by S.	2			30.18	65	65	60	"	"	7	"
7	Ebb	E.S.E.	"	2			30.20	65	65	60	"	"	8	"
8	"	West	"	2			30.20	65	63	60	"	"	8	"
9	"	"	"	1			30.20	64	63	61	"	"	8	"
10	"	"	S.S.E.	1			30.20	64	63	61	"	"	9	"
11	"	"	"	1			30.20	64	63	61	"	"	9	"
Mid.	"	"	"	1			30.20	64	63	61	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday November 8th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Clear & pleasant. Calm, & light airs from S.E.

W. B. Stoggatt
Ensign U.S.N.

From 4 to 8 A.M.:
Clear, pleasant weather. Light airs from E by N. & calms. Recd on board & issued to crew 83 lbs fresh bread. At 7:45 crossed topgallant & royal yards & loosed sail to a bowline with the fleet. At 6:15 swung to ebb.

B. F. Walling
Lieut U.S.N.

From 8 A.M to Meridian:
Clear & warm; light airs from E by N. to E. S.E.
Mustered & inspected crew at quarters, & found the following named men absent without leave:- W. Branagan (C.H.), P. Emery (S.A.C.), N. Lear (C.B.M.), A. Hansen (O.S.), W. A. Smith (Seaman), F. Wallace (C.T.), H. S. Harned (O.S.), G. A. Schwoerer (S.A.C.), S. E. Hendricks (Oiler), H. Lyndon (Seaman), C. J. Anderson (Baker), W. C. Reilly (W.T.), W. Smith 2nd (O.S.), J. W. Ald. (Ldsm.), F. Ranning (O.S.), A. Campbell (C.T.), G. E. Hansen (C.A.G.), C. Petterson (O.S.), M. Fitzgerald (C.H.), G. G. Keating (Eng. Yeo.). At 11:30 flagship made sig. 5955. Answered & reduced sail. Jos. Kohler (P.M.) & Fred. Smith (O.S.) were brought on board by the Consulas police & a reward of $10 (Mexicans) was paid for the latter; they were 72 hours over time. The following stores were recd on board from Bleasdale & Co. in Equipt. Dept:- 109 lbs. 18 Th. Hemp & 18 bath bricks; in Construction Dept.:- 300 lbs White lead 125 lbs white zinc, 50 lbs Yellow Paint, 3 lbs burnt umber, 15 gals Turpentine, 10 gal Alcohol, 25 lbs. Shellac, 20 Gals. Linseed oil raw, 100 Shts Sand Paper, 25 lbs Red Lead, 3 files 200 Lampblack & Sig Eng. Dept.- 700 gals 1st S. Tea Oil, 98 lbs, Scotch Oakum, 280 lbs White Lead, 10 lbs Pumicebags, 70 lbs Cast Iron Borings, 6 Brass Springs, 10-10 gal. iron cans, 15 Rods for boiler tubes - 104 lbs, & 100 Iron Washers, 4 lbs.. Riding to ebb. Lieut A. F. Fechteler was detached from this vessel by the Commander in-Chief of Asiatic station & allowed to return to the U.S. at his own expense. A. Lundquist (Bugler) was, by order of Comdg Officer, detailed to seaman on account of being unable to blow calls.

Jno. H. Rodman
Ensign U.S.N.

From Meridian to 4 P.M.
Fair & pleasant. Light airs to light breezes from E.S.E. & East. At 12:10 started fires in boilers for distilling At 1: Marion made sig. & execution Sig 4826, & furled sail. J. Branagan S.H., & S.E. Hendricks (oiler) were brought off by Consular authorities & a reward of 10 mexicans each was paid for them. H.B.M.S. Pelican left the harbor. Slack water at 1:00 & swung to the ebb. Strenght of current at 3:00 P.M. 2.7 knots

C. S. Craig,
Naval Cadet U.S.N.

From 4 to 8 P.M.
Clear & pleasant, light breezes from East to E by S. Finished swinging to ebb at 6:30. At 4: flagship made sig. 6068 & at 4:05 sent down light yards, time of execution 4 10. Following named men returned on board over time. C. Petterson (O.S.) 28 hrs, C. J. Anderson (Baker) 76 hours, H. Lyndon (Sea) 76 hrs, J. Wallace (C.T.) 76 hrs, G. Conboy (P.M) 5 hrs, H. S. Harned (O.S.) 77 hrs. Began distilling at 6 P.M.

Jno. H. Rodman
Ensign U.S.N.

Examined and found to be correct.

From 8 to Midnight
Clear & pleasant. Light airs from E by S. to S.S.E. At 11:30 strength of current 2.2 Knots. distilling A. E. Hansen (C.A.G.) returned from liberty dirty & drunk & ~~was~~ placed under the heavies charge by order of Comdg. Officer

W. B. Stoggatt
Ensign U.S.N

C. C. Galloway
Lieut & Navigator

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Shubs Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	S.E.	1			30.19	63	63	61		b.s.	cir. cum.	9	S
2	"			"	East	1			30.19	63	62	60		"	"	9	"
3	Flood			E. by N.	"	1			30.18	62	62	60		"	"	9	"
4	"			East	"	1			30.14	63	62	60		"	"	7	"
5	"			E. by N.	"	1			30.13	63	62	60		"	"	6	"
6	"			"	"	1			30.12	63	62	60		"	cum.	4	"
7	Ebb			W by S	South	1			30.17	64	62	61		"	"	2	"
8	"			West	"	1			30.20	64	63	62		"	"	2	"
9	"			"	East	1			30.20	64	64	63		"	"	2	"
10	"			"	"	1			30.20	66	66	64		o.c.v.	"	0	"
11	"			"	"	1			30.18	67	66	65		"	"	0	"
Noon.	"			"	E.S.E.	1			30.18	67	66	64		"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 800 "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, 2 tons 420 lbs.

Coal remaining on hand at Noon, 21 " 1994 "

P. M.													
1	Flood	W.S.W.	E.S.E	2		30.17	57	66	65	o.p.d.	Cum.	0	S
2	"	E. by N.	"	2		30.16	57	65	64	"	"	0	"
3	"	"	"	2		30.16	57	65	64	"	"	0	"
4	"	"	"	2		30.17	57	65	63	"	"	0	"
5	"	"	"	2		30.18	57	65	63	"	"	0	"
6	"	"	"	2		30.18	56	65	63	"	"	0	"
7	"	"	E. by S.	2		30.18	65	63	61	"	"	0	"
8	Ebb	E. by S.	"	2		30.19	63	62	60	"	"	0	"
9	"	W. by S.	N.E.	1		30.18	64	63	62	"	"	0	"
10	"	West	"	1		30.18	64	64	63	"	"	0	"
11	"	"	"	1		30.16	64	64	62	o.p.	"	0	"
Mid.	"	"	"	1		30.16	64	64	62	"	"		

under the command of Commander F. F. Jewell, U. S. Navy,
Friday November 9th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Clear & pleasant. Light airs from S.E. At 2:35 swung to flood tide. Distilling

F. J. Soomes
Ensign U. S. N.

From 4 to 8 A. M.:
Clear to cloudy, hazy, light airs from East first half of watch, shifting to South, last half. Recd on board in Pay Dept. 83 lbs fresh bread. At 7:25 flagship made time & uniform signal "prog. pennant 645"; answered; at 7:30 made "prep. 6069" answered, & crossed light yards. Following named men returned on board after expiration of leave:- Alex Campbell (B.M.) 42 hrs, Michl. Fitzgerald (C.M.) 42 hrs, P. Emery (S.A. / C.) 90 hrs, G. A. Schwonner (S.A. / C.) 90 hrs. Distilling. Finished swinging to ebb at 7.00

Wm. H. Brodman,
Ensign U.S.N.

From 8 A.M. to Meridian:
Overcast, with light rain last three hours. Light airs from East & E.S.E. At 9:25 went to fire-quarters, then mustered crew; the following named men were absent without leave:- N. Lear (C.B.M.), Albert Hansen (C.C.), W. A. Smith (sea), M. C. Reilly (W.), W. Smith 2nd (O.S.), J.W. Auld (Ldr.), G. G. Keating (Eng. Fcs.), & P. V. Haling (sea). Exercised 1st & 2nd divs. at great guns. By order of Comdg. Officer, released A.E. Hansen (S.A.) from sentry's charge, he being sober. Albert Hansen (C.C.), returned from liberty 9 hrs over time. Recd on Pay Dept. from Mare Island Navy Yard the following stores:- 6 bales Flannel, 2000 lbs. Tobacco, 1500 lbs. soap, 100 whisk brooms & 240 boxes Blacking

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M:
Overcast & cloudy with drizzling rain. Light breeze from E.S.E. Slack water at 1:15; swung to flood at 1:45. Distilling. J.W. Auld, Ldr, was this day discharged from the U.S. Naval service at his own request, waiving all claims for Consular aid.

F. J. Soomes
Ensign U.S.N.

From 4 to 8 P.M.:
Overcast, with drizzling rain Light breeze from E by S. & E.S.E. N. Lear (C.B.M.) returned from liberty 100 hrs over time & drunk; by order of the Comdg Officer he was placed under the sentry's charge to sober.

W. B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight:
Cloudy. Light airs from N.E. At 8:00 swung to ebb. Privt Hilley (U.S.M.C.) returned from liberty 9 hrs over time & by order of Comdg Officer, was placed under sentry's charge to sober. G.G. Keating (Eng. Fcs) returned on board 56 hrs over time. At 8:00 stopped distilling & left fires to die out

F. J. Soomes
Ensign

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	N.E.	1			30.16	64	64	62		o.c.d.	Cum	o	3
2	"			"	"	2			30.16	64	64	61		"	"	o	"
3	"			"	"	2			30.16	63	63	61		"	"	o	"
4	Flood			E.N.E.	"	2			30.16	63	63	61		"	"	o	"
5	"			"	"	2			30.10	63	63	61		o.c.N.	Nim.	o	"
6	"			"	"	2			30.10	64	63	61		"	"	o	"
7	"			N.E.	"	2			30.10	64	63	61		"	"	o	"
8	"			"	"	2-4			30.11	64	63	61		o.e.N.q.	"	o	"
9	Ebb			N.N.W.	N.N.E.	3-4			30.11	63	61	61		"	"	o	"
10	"			N.W by N.	N.E by N.	3-4			30.12	63	61	60		"	"	o	"
11	"			"	"	3-4			30.12	63	61	60		"	"	o	"
Noon.	"			"	"	3-4			30.12	63	61	60		"	"	o	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1100 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, tons 1300 lbs.

Coal remaining on hand at Noon, 21 " 694 "

P. M.												
1	Ebb	N.E. by N.	N.E.	3-4	30.12	63	60	59	o.c.N.q.	Nimb.	o	S.
2	"	N.E. by E.	"	3-4	30.09	62	60	59	"	"	o	"
3	Flood	E N.E.	"	3-4	30.09	62	60	59	"	"	o	"
4	"	"	"	3-5	30.09	62	60	59	"	"	o	"
5	"	"	"	4-5	30.10	62	60	59	"	"	o	"
6	"	"	"	4-5	30.11	62	60	59	"	"	o	"
7	"	"	"	4-5	30.12	62	60	59	"	"	o	"
8	"	"	"	3-5	30.13	62	60	59	"	"	o	"
9	"	N.N.E.	N.N.E.	3-5	30.14	60	59	58	"	"	o	"
10	Ebb	North	North	3-5	30.15	60	59	58	"	"	o	"
11	"	"	"	3-4	30.16	60	59	58	"	"	o	"
Mid.	"	"	"	3-4	30.16	60	59	58	"	"	o	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday November 10th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast & cloudy, with drizzling rain most of watch. Light airs to light breezes from N.E. Slack water at 3:00 & swung to the flood tide.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 A. M.:
Overcast & raining. Squally last hour. Light to mod. breeze from N.E. S.S. Sullivan (C.H.) returned from liberty 13 hrs. over time & drunk. By order of the Comdg. Officer, placed him under sentry's charge to sober. Rec'd & issued to crew 100 lbs each of fresh beef & vegetables & 80 lbs. fresh bread.

W. B. Hoggatt
Ensign U.S.N.

From 8 A. M. to Meridian:
Cloudy with continuous rain. Gentle to moderate breeze from N.N.E. & N.E. by N. Squally. Ebb tide made at 8:00. Riding to wind & tide. At 9:30 made Num. 6. Flagship answd. Wm A. Smith (seaman & Wm Smith (Os.) absent without leave. Rec'd in construction department, four patent clewline blocks & ten (10) lbs copper nails. Sent liberty party ashore. By order of Comdg. Officer, released N. Lear, (C.B.M.) & Prist. Hills (U.S.M.C.) from sentry's charge, they being sober.

T. J. Boorman
Ensign U.S.N.

From Meridian to 4 P. M.:
Overcast, cloudy, rainy & squally. Gentle to moderate breezes from the N.E., wind blowing in moderate squalls at times. Slack water at 2:00 & swung to the flood tide.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 P. M.:
Overcast, cloudy & rainy. Mod. to stiff breeze from N.E. blowing in squalls. Riding to flood tide.

T. J. Boorman
Ensign U.S.N.

From 8 P. M to Midnight:
Overcast, cloudy, rainy & squally. Gentle to stiff breezes from N.N.E. & North. Slack water at 9:00 & swung to the ebb tide.

C. S. Craig.
Naval Cadet U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	North	3-4			30.16	60	59	58		o.c.v.q.	Nimb.	0	S
2	"			"	"	3-4			30.15	60	59	58		"	"	0	"
3	"			"	"	3-4			30.14	60	59	58		"	"	0	"
4	"			"	N. by W.	3-4			30.12	59	58	57		"	"	0	"
5	Flood			N. by W.	North	3-4			30.13	58	56	55		"	"	0	"
6	"			North	"	3			30.14	58	56	55		o.p.d.q.	"	0	"
7	"			"	"	3			30.18	58	56	55		"	"	0	"
8	Ebb			W. N. W.	"	3			30.21	58	56	55		"	"	0	"
9	"			W by N.	"	3			30.22	58	56	54		o.c.q.	"	0	"
10	"			"	"	3			30.23	58	56	54		"	"	0	"
11	"			"	"	3			30.23	58	56	54		b.c.q.	Cum & Nim	1	"
Noon.	"			"	"	3			30.23	58	56	54		o.p.q.	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″ ′

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, tons 1300 lbs.

Coal remaining on hand at Noon, 20 " 1634 "

P. M.										
1	Ebb	W. by N.	North	3	30.22	58	57	54	f.q.	Cum. 1 S.
2	"	"	N. N. W.	3	30.21	58	57	54	"	" 1 "
3	"	"	"	3	30.21	58	57	54	"	" 1 "
4	"	"	N. W. by N.	3	30.22	58	57	54	"	" 1 "
5	Flood	N. by E.	N. W.	3	30.22	58	56	54	"	" 1 "
6	"	N. E. by E.	"	3	30.22	58	56	54	"	" 1 "
7	"	"	N. N. W.	3	30.25	58	55	53	"	" 2 "
8	"	"	"	3	30.26	58	55	53	"	" 2 "
9	Ebb	W. by N.	"	2	30.26	56	54	52	"	" 1 "
10	"	"	"	2	30.27	55	53	51	"	" 2 "
11	"	"	"	3	30.27	54	53	51	0.f.	" 0 "
Mid.	"	"	"	3	30.28	54	53	51	"	" 0 "

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday November 11th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast rainy & squally. Gentle to moderate breezes from North & N. by W. Riding to the ebb.

B. F. Welling
Lieut U. S. N.

From 4 to 8 A. M.:
Overcast & cloudy, with drizzling rain. Gentle breeze from North. At 5:10 started to swing to flood tide, ship lying athwart the tide remainder of watch. At 7:15 Flagship made Sig. 6.15 Answered. Liberty party returned.

T. J. Loomis
Ensign U. S. N.

From 8 A. M. to Meridian:
Overcast & cloudy. Squally. Light drizzling rain first hour. Gentle breeze from North, with moderate squalls at times. At 9:30 mustered crew at quarters; Wm A. Smith (sea) & Wm Smith 2nd (O.S.) were absent without leave. La Forest E. Turner was discharged from this ship, his term of enlistment having expired, he being entitled to an honorable discharge. Ebb tide at 8:00, ship riding between wind & tide all watch. At 9:30 made gen. sig. nums. 7, sick report. A small Chinese gun boat came in and anchored.

C. S. Craig
Naval Cadet U. S. N.

From Meridian to 4 P. M.:
Cloudy; gentle breeze from North & N. W. by N. Riding to ebb. At 1:45 flagship made "Essex distinguishing pennant 2072." Answered.

H. H. Rodman
Ensign U. S. N.

From 4 to 8 P. M.:
Cloudy, cool & pleasant. Gentle breeze from N. W. & N. N. W. Slack water at 4:30 & swung to the flood tide.

C. S. Craig
Naval Cadet U. S. N.

From 8 P. M. to Midnight:
Overcast, cool weather. Light to gentle breezes from N. N. W. Riding to the flood.

B. F. Welling
Lieut U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	N.W.	2			30.28	52	50	50		b.c.	cir cum	5	S
2	"			"	"	2			30.28	52	52	49		"	"	7	"
3	"			"	"	2			30.27	52	51	49		"	"	6	"
4	"			"	"	2			30.27	52	51	49		"	"	5	"
5	"			"	"	2			30.27	52	51	49		"	"	4	"
6	"			W. by N.	W.N.W.	2			30.29	52	51	48		"	"	4	"
7	Flood			North	"	2			30.29	54	50	48		"	"	4	"
8	"			"	"	2			30.32	54	49	49		"	"	5	"
9	"			"	"	2			30.33	54	50	49		"	cum.	3	"
10	"			W.N.W.	"	2			30.33	55	50	49		"	"	5	"
11	"			"	N.W.	2			30.34	56	52	50		"	"	7	"
Noon.	"			W. by N.	"	2			30.30	56	54	52		"	"	6	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 20 " 1234 "

P. M.													
1	Ebb	W. by N.	N.N.W.	2		30.29	58	56	53	l.c.	cir cum.	5	S.
2	"	West	"	2		30.28	58	57	53	"	"	2	"
3	"	"	N.W.	2		30.29	59	57	53	"	"	1	"
4	"	"	"	2		30.29	57	56	52	"	"	1	"
5	"	"	"	2		30.30	58	56	53	o.c.	cum.	0	"
6	Flood	N.N.E.	"	2		30.30	57	56	53	"	"	0	"
7	"	"	"	2		30.30	56	55	53	"	"	0	"
8	"	"	"	2		30.31	56	55	53	l.c.	"	1	"
9	"	N. by E.	"	2		30.30	55	54	53	"	"	3	"
10	"	"	"	1-2		30.30	55	54	53	"	"	6	"
11	Ebb	N.N.W.	"	2		30.30	54	53	52	"	"	5	"
Mid.	"	West	"	2		30.30	53	51	49	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Monday November 12th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Clear; light breeze from N.W. Riding to ebb.

Hugh Rodman
Ensign U.S.N.

From 4 to 8 A.M.:
Fair cool & pleasant. Light breeze from N.W. & W.N.W. Slack water at 6:00 & riding between wind and tide remainder of watch. At 7:30 Flagship made tide & drew signal 6445 & at 7:37 made prep. & execution signal 5456, & loosed sail to a bowline. Reid on board in pay dept. & issued to the crew 100 lbs fresh beef, 100 lbs fresh vegetables & 82 lbs fresh bread.

C. A. Craig
Naval Cadet U.S.N.

From 8 A.M. to Meridian:
Fair & pleasant; light breeze from W.N.W. to N.W.
Exercised at general quarters; ready 4'00", secure 4'20". Found W. A. Smith absent after expiration of leave. At 9:30 made sick report by signal "7" At 11:05 flagship made gen. sig 5955. Answered & shortened sail, & at 11:10 gen sig. 2826 & furled sail. Sent down yard and mast covers. At 10:15 the Rear Admiral's flag was hauled down on the "Marion" & hoisted on the "Omaha" At 9:15 flagship made, "Essex 4961", when "Omaha" hauled down guard flag, & it was hoisted on this vessel. Riding to ebb.

Hugh Rodman
Ensign U.S.N.

From Meridian to 4 P.M.:
Overcast & cool. Light breeze from NNW. to N.W.. Enlisted for the cruise, La Forest E. Turner (sea). Ebb tide. The "Omaha" hauled down Rear Admiral's flag at 3:30. It was then hoisted on the "Marion"

W. B. Woggatt
Ensign U.S.N.

From 4 to 8 P.M.:
Overcast & cloudy; light breeze from N.W. At 4:10 flagship made "Prep 6140", & at 4:15, "6140", & ships sent down topgallant yards & topgallant masts. At 4:35 made "Int 4961". flagship answered affirmative & at 5:50 started fires, for heating ship, under Nos. 1 & 3 boilers. Finishes swinging to flood at 5:35

Hugh Rodman
Ensign U.S.N.

From 8 P.M. to Midnight:
Partly clear, & cool. Light breeze from N.W. Riding to ebb tide.

W. B. Woggatt
Ensign U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	N.W.	1			30.30	52	52	50		b.c.	cir cum.	9	S
2	"			"	"	1			30.30	52	52	50		"	"	9	"
3	"			"	"	1			30.29	51	51	49		"	"	9	"
4	"			"	"	1			30.29	51	51	49		"	"	9	"
5	"			"	"	1			30.28	50	49	48		"	"	8	"
6	"			"	"	1			30.28	49	48	47		"	"	8	"
7	"			"	"	1			30.29	50	47	46		"	"	7	"
8	Flood			N.N.E.	"	2			30.30	50	47	47		"	"	7	"
9	"			E.N.E.	"	2			30.30	54	50	50		"	"	7	"
10	"			"	North	2			30.31	55	54	51		"	"	7	"
11	"			N.E. by E.	N.W. by N.	2			30.30	56	52	52		"	"	7	"
Noon.	"			"	"	2			30.29	57	55	53		"	"	7	"

Course and distance made good since preceding noon by observations, knots, tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 1 tons 410 lbs.

Coal remaining on hand at Noon, 19 " 824 "

P. M.												
1	Ebb	N.N.W.	North	2	30.29	57	56	53	b.c.	cum.	7	S
2	"	N. by W.	"	2	30.28	59	58	54	"	"	8	"
3	"	"	"	2	30.28	60	58	54	"	cir cum.	8	"
4	"	"	"	2	30.27	61	59	55	"	"	8	"
5	"	"	"	2	30.27	59	59	55	"	"	8	"
6	"	West	"	1	30.27	57	57	54	"	"	9	"
7	"	"	"	1	30.27	57	57	54	"	"	9	"
8	Flood	"	"	1	30.27	57	57	54	"	"	8	"
9	"	E.N.E.	"	1	30.27	55	55	53	"	"	8	"
10	"	"	N.W.	1	30.29	54	53	51	"	"	8	"
11	"	"	"	1	30.26	54	52	50	"	"	8	"
Mid.	"	"	"	1	30.24	54	52	50	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday November 13th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Clear, cool & pleasant. Light breze from N. W.
Ebb tide.

Thos. Sowers
Ensign U. S. N.

From 4 to 8 A. M:
Clear & cool; light airs & breze from N. W.
Received on board in Pay Dept. 80 lbs. fresh bread. At 7:25 flagship made time & uniform signals "645" & at 7:35 "Prep. 6144", & at 7:38, "6144". Sent up topgallant mast & topgallant yards. Finished swinging to flood at 7:15.

Hugh Rodman
Ensign U. S. N.

From 8 A. M. to Meridian:
Clear, cool & pleasant. Light breze from North & N. N. W. by N. At 9:30 inspected crew at quarters, then instructed divisions Afterward, mustered, equipped in light marching order, & drilled batallion. Riding to flood tide. Black water at 12 o'clock. Wm Smith 2nd (C. S.) & W. A. Smith (sig) were absent without leave.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P. M:
Clear & pleasant. Light breze from North.
At 1:00 swung to ebb tide.

Thos. Sowers
Ensign U. S. N.

From 4 to 8 P. M:
Clear & pleasant. Light airs & breze from North.
At 4:20 sent down t. g. yards in obedience to signal from flagship.

W. B. Hoggatt
Ensign U. S. N.

From 8 P. M. to Midnight:
Clear & cool. Bright moonlight. Light airs from N. W. Flood tide:

Thos. Sowers
Ensign U. S. N.

Examined and found to be correct.

E. P. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtsy River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			E.N.E.	N.W.	2			30.23	51	51	50		b.c.	Cir Cum.	7	S
2	Ebb			West	"	2			30.27	51	51	50		"	"	7	"
3	"			W by N.	"	2			30.21	51	51	50		"	"	8	"
4	"			"	"	1-2			30.21	51	50	49		"	"	8	"
5	"			"	"	1			30.27	52	50	49		"	"	8	"
6	"			"	"	1			30.24	52	50	49		b.c.f.	"	7	"
7	"			"	"	1			30.26	52	50	49		"	"	8	"
8	"			"	"	1			30.28	52	51	50		"	"	8	"
9	Flood			E.N.E.	"	1			30.29	53	52	50		"	"	8	"
10	"			E by N.	"	1			30.30	56	54	52		b.c.	"	9	"
11	"			"	"	1			30.30	57	56	52		"	"	9	"
Noon.	"			"	"	1			30.28	58	57	52		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.:
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.:
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 1 tons 1040 lbs.

Coal remaining on hand at Noon, 17 "2024"

P. M.										
1	Flood	East	Calm	0	30.24	59	55	53	b.c.	Cir Cum. 9 S
2	Ebb	West	E.N.E.	1	30.24	62	61	55	"	" 9 "
3	"	"	"	1	30.25	65	62	56	"	" 9 "
4	"	"	"	1	30.25	66	64	58	"	" 9 "
5	"	"	"	1	30.24	62	60	58	"	" 8 "
6	"	"	"	1	30.24	60	59	56	"	" 8 "
7	"	"	"	2	30.22	59	58	56	"	" 9 "
8	Flood	W.S.W.	"	2	30.22	58	56	54	"	" 9 "
9	"	East	S.S.E.	1	30.23	55	56	53	b.	None 10 "
10	"	"	"	1	30.23	54	52	52	"	" 11 "
11	"	"	"	1	30.23	54	52	51	"	" 10 "
Mid.	"	"	S.E.	1	30.23	54	53	51	"	" 11 "

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday November 14th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Clear, cool & pleasant; light breezes from N. W.
Black water at 2:00 & swung to the ebb tide.

W. C. Craig.
Naval Cadet U. S. N.

From 4 to 8 A. M.:
Partly clear; foggy & cool. Light airs from N. W.

At 7:25 flagship made uniform signal "Geog. 6145" At 7:35 crossed t. g. yards in obedience to signal from flagship. Rec'd & issued to crew, 1011 lbs. each of fresh beef & vegetables & 81 lbs. fresh bread.

W. B. Hoggatt
Ensign U. S. N.

From 8 A. M. to Meridian:
Clear mild & pleasant. Light airs from N. W.
At 9:15 swung to flood. A French man-of-war passed down the river. At 9:30 mustered & inspected at quarters. At 10:05 called away all boats armed & equipped for distant service. Overhauled boat tackles. Transferred Damson Tolefsen (seaman) to the Shanghai General Hospital. Fires in two boilers for heating ship. Ah Gun (Lds) was this day discharged from Naval service at his own request, waiving Consular aid & transportation

T. J. Townsend
Ensign U. S. N.

From Meridian to 4 P. M.:
Clear & pleasant. Calms, & light airs from E. N. E.
Black water at 1:00 & swung to the ebb tide

W. C. Craig.
Naval Cadet U. S. N.

From 4 to 8 P. M.:
Clear & pleasant weather. Light airs to light breezes from E. N. E. Riding to ebb tide. At 4:00, flagship made prep. 6143 followed by 2253. Answered. Sent down t. g. yards & sent light sails, except flying jib.

T. J. Townsend
Ensign U. S. N.

From 8 P. M. to Midnight:
Clear cool & pleasant. Light airs from S. S. E. & S. E. Flood tide all watch. Bright moonlight.

W. C. Craig.
Naval Cadet U. S. N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			E.N.E.	S.E.	1			30.20	52	52	50		l.c.w.	air cum.	9	S.
2	Ebb			W.S.W.	S.S.E.	1			30.20	52	52	50		"	"	9	"
3	"			W. by S.	"	1			30.18	52	51	50		"	"	9	"
4	"			"	"	1			30.17	51	50	49		"	"	9	"
5	"			"	"	2			30.18	51	50	49		"	"	8	"
6	"			"	South	2			30.20	51	50	49		"	"	9	"
7	"			"	"	2			30.22	52	50	49		l.	clear	10	.
8	"			"	"	2			30.22	53	51	50		"	"	10	.
9	Flood			E. by S.	S.E.	2			30.24	56	55	52		"	"	10	"
10	"			"	"	2			30.26	60	58	55		.	"	10	"
11	"			"	"	1			30.27	61	60	57		.	"	10	"
Noon.	"			"	"	1			30.26	61	61	57		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, 1 tons 920 lbs.

Coal remaining on hand at Noon, 16 " 1704 "

P. M.											
1	Flood		East	S.E.	2	30.23	62	62	58	l.	None	10	S.
2	Ebb		S.S.E.	"	2	30.21	62	63	58	"	"	10	.
3	"		W. by S.	S.S.E.	2	30.20	65	64	60	l.c.	air cum.	9	"
4	"		"	South	2	30.20	68	65	60	"	"	9	"
5	"		"	"	2	30.21	64	63	60	"	"	9	"
6	"		"	"	2	30.18	62	61	58	"	"	9	"
7	"		West	"	2	30.18	60	60	58	"	"	9	"
8	"		"	"	2	30.18	60	59	57	"	"	9	"
9	Flood		S. by E.	"	1	30.19	58	57	55	"	"	9	"
10	"		E. by N.	S.E.	1	30.20	58	57	57	"	"	8	"
11	"		"	"	1	30.20	58	57	57	"	"	8	"
Mid.	"		"	"	1	30.20	58	57	55	"	"	8	"

under the command of Commander F. F. Jewell, U. S. Navy,
Thursday November 15th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Clear; light airs from S.E. & E. Finished swinging to Ebb at 1:30

Hugh W. Rodman
Ensign U.S.N.

From 4 to 8 A.M.:
Clear, cool & pleasant. Heavy dew. Light breeze from S.S.E. & South. Ebb tide. At 7:40 crossed t.g. ~~yards~~ & royal yards & loosed sail to a bowline. Flag at 7:25, made Geog 645. Answered; & at 7:32 Flag made 6245. Answered. Rec'd in Pay Dept. for issue to crew 81 lbs bread & 101¼ lbs. each fresh beef & vegetables.

F. J. Boomer
Ensign U.S.N.

From 8 A.M. to Meridian:
Clear, cool & pleasant. Light airs to light breezes from S.E. Slack water at 9:00 & swung to the flood tide. Sent to the U.S.S. Omaha 1 Bbl. (150 lbs.) sugar. At 9:17 "Marion" made gen. sig. 5955 & we shortened sail; at 9:20 "Marion" made gen. sig. Essex distinguishing pennant 4826, & we furled sail, & at 9:23 Essex distinguishing pennant 6070 & we sent down royal yards. At 10:10 Rear Admiral Ralph Chandler U.S.N. & his staff came on board & were received with the crew at quarters, & the divisions were inspected. At 10:27 cleared ship for action, at 10:40 beat to general quarters & the divisions were inspected. At 10:10 hoisted Admiral's flag at the mizzen. Enlisted for the cruise Takutaro Kawabi, with rate of landsman.

C. S. Craig.
Naval Cadet U.S.N.

From Meridian to 4 P.M.
Clear & pleasant, light breeze from S.E. to South. Commander-in-Chief finished inspecting ships after securing from clear ship for action. then exercised at single sticks, marine guard as infantry, arm & away boats & at fire quarters. At 2:45 the flag of the Rear Admiral was hauled down from this vessel & hoisted on the "Marion" Finished swinging to ebb at 1:45. The following named men with necessary papers, were transferred from the "Omaha" to this vessel:- Frank Wilson (Lds), Geo Banister (O.S.) Charles Larson (O.S.) John Frawley (Lds) Henry Young (Sea) Michael Patton (Prvt. U.S.M.C.) & Ed Cochran (Fifer.)

Hugh W. Rodman
Ensign U.S.N.

From 4 to 8 P.M:
Clear cool & pleasant. Light airs to light breezes from South. At 4:10 flagship made preparatory & execution signal 6:40 Sent down top gallant yards & unbent light sails. Ebb tide.

C. S. Craig.
Naval Cadet U.S.N.

From 8 P.M. to Midnight:
Clear & cool; light airs from South to S.E. Started distilling at 9:00. Finished swinging to the flood at 8:30

Examined and found to be correct.

Hugh W. Rodman
Ensign U.S.N.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			East	S. S. E.	1			30.20	56	56	54		b. c.	Cir Cumy.	6	S
2	Ebb			S. E.	"	1			30.18	56	56	54		"	"	3	"
3	"			W.S.W	"	1			30.17	56	56	54		"	"	2	"
4	"			W. by S.	"	1			30.16	56	56	55		"	"	1	"
5	"			"	"	1			30.14	56	56	55		"	"	2	"
6	"			"	"	1			30.14	56	56	55		"	"	2	"
7	"			"	South	1			30.15	57	56	55		"	"	2	"
8	"			West	"	1			30.17	58	56	55		"	"	2	"
9	"			W. by S.	"	2			30.18	59	58	58		"	"	2	"
10	Flood			East	"	2			30.18	62	61	59		"	"	5	"
11	"			"	"	2			30.16	63	62	59		"	"	5	"
Noon.	"			"	S. S. W.	2			30.16	64	63	60		"	"	2	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1000 "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, 2 tons 1450 lbs.

Coal remaining on hand at Noon, 14 " 254 "

P. M.														
1	Flood	E. by N.	S. W.	2	30.11	67	65	63	b. c.	Cumy.	6	S		
2	"	"	"	1	30.11	67	65	63	"	"	5	"		
3	Ebb	S. W. by W.	S. W. by W.	1	30.11	68	66	63	"	"	4	"		
4	"	W. by S.	West	1	30.11	68	66	63	b. c. d.	"	4	"		
5	"	"	N. W.	1	30.11	67	65	63	b. c.	"	1	"		
6	"	West	"	1	30.10	67	65	63	"	"	4	"		
7	"	"	Calm.	0	30.11	65	65	62	b. c. z.	"	4	"		
8	"	"	"	0	30.11	65	65	62	"	"	1	"		
9	"	"	"	0	30.11	63	63	61	"	"	3	"		
10	Flood	E. S. E.	"	0	30.10	63	63	61	"	"	1	"		
11	"	East	"	0	30.10	63	63	61	"	"	2	"		
Mid.	"	"	North	1	30.10	62	62	61	"	"	1	"		

under the command of Commander T. F. Jewell, U. S. Navy,

Friday November 16th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Generally cloudy. Light airs from S. S. E. Distilling

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.:
Cloudy & pleasant. Light airs from South & S. W. Ebb tide. At 7:30 flagship made time & dress signal "64", & at 7:35 preparatory & execution signal "6079" & crossed topgallant & royal yards. Read on board in pay dept. & issued to the crew 87 lbs. fresh bread.

C. A. Craig.
Naval Cadet U.S.N.

From 8 A.M. to Meridian:
Fair & pleasant; light breeze from South to S. S. W. Mustered & inspected crew at quarters & then exercised 1st & 3d Divs. at single sticks, 2nd Div. as infantry. At 9:30 made sick report by signal "5" Answered. Finished swinging to flood at 9:40. Distilling. Transferred C. S. Baumgardner (P.M.) to the "Omaha"

Hugh Rodman
Ensign U.S.N.

From Meridian to 4 P.M.:
Cloudy & pleasant, with very light rain last ten minutes of watch. Light airs & breezes from S. W. to West. Distilling.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.:
Cloudy & hazy; light airs from N. W. & calm. At 4:08 flagship made "Prep. 6079", & at 4:14 sent down royal yards. Exercised at fire quarters, ready 1' 10". Stopped distilling at 5:30 & allowed fires in Nos. 1 & 3 boilers to die down. M. Patton (P.M.) was placed under sentry's charge for safe keeping, for being intoxicated

Hugh Rodman
Ensign U.S.N.

From 8 P.M. to Midnight:
Cloudy & pleasant. Hazy. Calm, & light airs from North. Swinging to flood at 10:00 P.M.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C. C. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			E. by N.	N.E.	1			30.09	62	61	60		b.c.	Cumo.	2	S
2	"			"	"	1			30.09	62	61	60		"	"	4	"
3	Ebb			West	"	1			30.08	61	60	59		"	"	1	"
4	"			"	N.N.E.	1			30.06	61	60	59		"	"	1	"
5	"			"	Calm	0			30.08	62	60	59		b.c.f.	"	2	"
6	"			"	"	0			30.08	62	60	59		o.g.f.	"	0	"
7	"			"	"	0			30.09	61	59	58		b.c.f.	"	2	"
8	"			"	"	0			30.09	62	60	59		"	"	2	"
9	"			"	"	0			30.07	62	61	60		"	"	8	"
10	Flood			N.E. by E.	"	0			30.08	64	62	61		"	"	7	"
11	"			East	"	0			30.06	66	65	61		b.c.	"	1	"
Noon.	"			"	S.E.	1			30.06	67	66	62		"	"	6	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1100 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 1 tons 1580 lbs.

Coal remaining on hand at Noon, 12 " 914 "

P. M.																	
1	Flood			E by N.	E.S.E.	1			30.04	67	67	64		b.c.	Cumo.	5	
2	"			"	"	1			30.04	67	67	64		"	"	4	
3	Ebb			E by S.	"	1			30.04	67	66	64		"	"	3	
4	"			S.E. by S.	"	1			30.04	67	66	64		"	"	2	
5	"			N. by S.	"	2			30.04	67	66	63		o.c.	"	0	
6	"			"	"	0			30.04	66	66	63		"	"	0	
7	"			West	Calm	0			30.05	65	65	63		"	"	0	
8	"			"	South	1			30.08	64	64	63		"	"	0	
9	"			"	S.E.	1			30.08	65	64	63		"	"	0	
10	"			"	"	1			30.06	65	64	63		b.c.	"	1	
11	Flood			E.N.E.	"	1			30.04	65	64	63		"	"	2	
Mid.	"			"	"	1			30.06	63	63	62		"	"	1	

under the command of Commander F. F. Jewell, U. S. Navy,
Saturday November 17th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Cloudy to fair weather. Light airs from N.E. & N.N.E. At 7:30 swung to flood tide

F. J. Boorman
Ensign U.S.N.

From 4 to 8 A.M.:
Cloudy overcast foggy & calm. Rec'd on board in Pay Dept. 108¾ lbs. fresh beef 108¾ lbs. vegetables & 78 lbs. fresh bread. At 7:25 flagship made time & uniform signal

Hugh Rodman
Ensign U.S.N.

From 8 A.M. to Meridian:
Partly clear, foggy first part, warm & pleasant. Calm, & light airs from S.E. By order of Comdg. Officer, released Michael Patton Prvt. U.S.M.C. from sentry's charge, he being sober. Riding to flood tide. At 9:30 made signal, Numeral "5"

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.:
Fair, mild & pleasant weather. Light airs from E.S.E. At end of watch swinging to ebb tide. At 3:50 finished swinging to ebb.

F. J. Boorman
Ensign U.S.N.

From 4 P.M. to 8 P.M.:
Overcast. Calm, & light airs & breeze from E.S.E. & South.

W. B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight
Cloudy but pleasant. Light airs from S.E. Riding to Ebb until 10:30 when swung to flood.

F. J. Boorman
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & N Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			East.	Calm	0			30.06	63	62	61		O.C.	Cum.	0	S
2	"			"	"	0			30.06	62	62	61		"	"	0	"
3	"			"	"	0			30.06	62	62	61		"	"	0	"
4	Ebb			West	"	0			30.05	62	61	60		O.S.C.	"	0	"
5	"			"	"	0			30.04	61	61	60		"	"	0	"
6	"			"	"	0			30.05	61	61	60		"	"	0	"
7	"			"	N. E.	1			30.06	61	60	59		"	"	0	"
8	"			"	"	1			30.08	61	61	60		"	"	0	"
9	"			"	"	1			30.10	63	62	61		"	"	0	"
10	"			"	"	1			30.11	64	62	61		"	"	0	"
11	Flood			East	East	2			30.09	65	64	61		O.C.	"	6	"
Noon.	"			"	"	2			30.08	65	64	61		"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, tons 1750 lbs.

Coal remaining on hand at Noon, 11 " 1404 "

P. M.												
1	Flood		E. by N.	E. by N.	2	30.06	66	65	61	O.S.	Cum.	0	S.
2	"		"	"	2	30.04	66	65	61	"	"	0	"
3	"		"	"	2	30.02	66	64	61	"	"	0	"
4	"		E. by S.	"	2	30.02	65	64	61	"	"	0	"
5	Ebb		West	"	2	30.03	65	64	62	S.C.	"	2	"
6	"		"	"	1	30.05	65	65	63	"	"	2	"
7	"		"	"	1	30.05	64	65	63	"	Cum. str.	4	"
8	"		"	Calm	0	30.06	64	64	63	"	"	2	"
9	"		"	East	1	30.05	64	64	63	"	"	1	"
10	"		"	"	1	30.04	64	63	62	"	"	1	"
11	Flood		N. W.	"	1	30.02	64	63	62	"	"	3	"
Mid.	"		East	"	1	30.00	62	62	61	"	"	3	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday November 18th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:

Overcast & cloudy. Calm. Flood tide, slack water at end of watch.

C. L. Craig
Naval Cadet U.S.N.

From 4 to 8 A. M.:

Overcast & foggy. Calm, & light airs from N. E. At 7:30 fog was so thick that no signal from the flagship could be seen. Rec'd & issued to crew, 86 lbs. fresh bread. Riding to ebb.

W. B. Hoggatt
Ensign U.S.N.

From 8 A. M. to Meridian:

Overcast, cloudy & foggy. Light airs from N. E. first half, shifting & increasing from light breze from East. At 10:10 swung to flood tide. Sent liberty party ashore. At 9:30 mustered & inspected at quarters. The following men were absent without leave: T. T. Ellis (sea) H. Young (sea) & H. C. Ballow (P. M.)

T. J. Craig
Ensign U.S.N.

From Meridian to 4 P. M.:

Overcast, cloudy & pleasant. Light breezes from E. by N. & E. by S. Flood tide all watch. Strength of current at 12:30, 2.5 knots.

C. L. Craig
Naval Cadet U.S.N.

From 4 to 8 P. M.:

Cloudy, but pleasant. Light breze decreasing to light airs from E. by N. Riding to ebb tide. Prvt. H. C. Ballow (U.S.M.C.) returned from leave 34 hrs. over time.

T. J. Craig
Ensign U.S.N.

From 8 P. M. to Midnight:

Cloudy & pleasant. Light airs from East. Black water at 11:00, & swung to the flood tide. Henry Young (sea) returned from liberty intoxicated, & by order of Comdg Officer, placed him under sentrys charge until sober.

C. L. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

C. S. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Stbds Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			East	East	2			29.98	63	67	60		0.C.	Cum.	0	S
2	"			"	"	1			29.97	63	67	60		"	"	0	"
3	"			"	S. E.	1-2			29.96	63	67	60		"	"	0	"
4	Ebb			S. E.	"	1-2			29.96	63	62	60		"	"	0	"
5	"			W. by S.	East	2			29.94	63	62	61		b. c. d.	"	1	"
6	"			"	"	2			29.90	62	62	60		b. c.	"	2	"
7	"			"	E. S. E	2			29.90	63	62	60		0. C.	"	0	"
8	"			.	"	2			29.90	63	62	60		"	"	0	"
9	"			West	"	2			29.91	64	63	62		0. S. P.	cum nim.	0	"
10	"			W. by S.	S. E.	2			29.91	65	64	63		0. C.	"	0	"
11	Flood			East	"	2			29.89	65	64	63		0. C. P.	"	0	"
Noon.	"			"	"	3			29.86	65	65	62		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ⊙ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, tons 1570 lbs.

Coal remaining on hand at Noon, 10 " 2074 "

P. M.											
1	Flood	East	S. E.	3	29.80	66	66	63	0. S. P.	cum nim.	0	S
2	"	"	"	3	29.80	66	65	62	"	"	0	"
3	"	"	"	2	29.80	66	65	62	"	"	0	"
4	"	"	"	2	29.80	66	65	62	"	"	0	"
5	Ebb.	W. by S.	"	2	29.80	66	65	62	0. P. S.	"	0	"
6	"	"	"	2	29.80	66	65	62	"	"	0	"
7	"	"	"	2	29.80	66	65	63	"	"	0	"
8	"	"	"	1	29.80	66	65	63	"	"	0	"
9	"	West	Calms	0	29.84	65	65	64	b. q.	nims.	1	"
10	"	"	East	1	29.83	65	65	64	0. C. Z.	"	0	"
11	"	"	North	1	29.82	65	65	64	"	"	0	"
Mid.	Flood	E by N.	Calms	0	29.82	65	65	64	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday November 19th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.

Overcast & pleasant, light breze & airs from East to S. E. Started swinging to ebb at 3:45

Hugh Rodman
Ensign U.S.N.

From 4 to 8 A. M:

Cloudy & foggy. Light breze from East & E.S.E. Made preparations for coaling ship. At 7:00 two coal lighters came along side. Recd in Pay Dept, for issue to crew, 86 lbs bread & 107½ lbs. each fresh beef & vegetables. Liberty party returned on board. The following entry was ordered to be made, by Comdg Officer:- "The Paymaster, was absent without leave, at the inspection of coal". Ebb tide

F. J. Boomer
Ensign U.S.N.

From 8 A.M to Meridian:

Overcast & cloudy with very light passing showers of rain. Light to gentle breezes from S.E & S.S.E. Slack water at 11:00, & swung to the flood tide. At 9:00, half masted colors in respect to the death of the Italian consul of Shanghai. Commenced coaling ship about 9:00, the board of inspection having accepted the coal. At noon had gotten in 37 tons Cardiff coal. Condemned, by board of survey, & by order of Comdg. Officer, threw overboard, 26 lbs. Salmon & 1 can, 6 lbs, roast beef. By order of Comdg Officer released Henry Young (sea) from sentry's charge he being sober, & confined M. Patton (P.M.) in double irons for five days, for leaving the ship without authority. At 9:30 made sick report, Num. 3"

C. S. Craig.
Naval Cadet U.S.N.

From Meridian to 4 P.M:

Overcast, threatening rain, light passing showers first two hours. Riding to flood. Coaling ship.

Hugh Rodman
Ensign U.S.N.

From 4 to 8 P.M.

Overcast & cloudy, with light drizzling rain. Light breze from S.E. Slack water at 5:00 & swung to the ebb tide. Finished coaling ship, having received on board in all 95½ tons Cardiff coal. Washed down the decks. Draft of ship, forward 14 ft, aft 16 ft.

C. S. Craig.
Naval Cadet U.S.N.

From 8 P.M to Midnight

Cloudy, overcast & hazy, calm & variable light airs. Finished swinging to flood at 11:30

Hugh Rodman
Ensign U.S.N.

Examined and found to be correct.

E. K. Calloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
A. M.																	
1	Flood			E by N.	North	1			29.87	65	65	64		o.c.d.	nim.	0	S
2	"			"	"	1			29.87	64	64	63		o.c.n.g.	"	0	"
3	"			"	Calm	0			29.87	64	64	63		o.c.f.	cum nimb.	0	"
4	"			"	N.W. by N.	1			29.80	64	64	63		b.c.	Cum	0	"
5	"			"	"	1			29.80	64	64	63		.o.c.f.	"	0	"
6	Ebb			West	"	1			29.80	65	64	63		"	"	0	"
7	"			"	"	1			29.81	66	64	63		"	"	0	"
8	"			"	"	1			29.85	65	63	62		"	"	0	"
9	"			"	"	2			29.84	65	63	62		b.c.d	cum nim.	2	"
10	"			"	"	2			29.85	64	62	61		o.c.	"	0	"
11	"			"	"	2			29.85	63	62	61		o.c.d.	"	0	"
Noon.	Flood			East	"	2			29.86	64	62	61		"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 1 tons 136 lbs.

Coal remaining on hand at Noon, 105 " 818 "

P. M.													
1	Flood	E by N.	North	3	29.84	64	63	62	o.c.n.	Nimb	0	3	
2	"	"	"	3	29.84	64	63	62	"	"	0	"	
3	"	E.N.E.	"	3	29.85	64	62	61	"	"	0	"	
4	"	"	"	3	29.85	64	62	61	"	"	0	"	
5	"	N.N.E.	"	3	29.90	63	62	61	"	"	0	"	
6	Ebb.	N.W. by W.	"	3	29.95	62	61	60	o.c.	Cum. nmb.	0	"	
7	"	West	"	1	29.98	63	62	61	"		0	"	
8	"	"	"	1	30.00	63	62	61	"	"	0	"	
9	"	"	N. by E.	2-3	30.00	64	62	61	o.c.g.	"	0	"	
10	"	"	"	2-3	30.01	63	61	59	"	"	0	"	
11	"	"	"	2-3	30.02	63	61	59	"	"	0	"	
Mid.	Flood	East.	"	2-3	30.03	62	60	58	"	"	0	"	

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday November 20th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, & until 4 A. M.:
Overcast squally & raining. Clearing towards end of watch. Calm, & light airs from N. W. by N. to North

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M:
Overcast & cloudy, foggy after first hour. Light airs from N. W. by W. Slack water at 6:00 & swung to the flood tide. Hoisted out sailing launch & made preparations for landing battalion. Flagship made time & uniform signal 645. Recd on board & issued to the crew, 86 lbs. fresh bread. At 7:45 sounded assembly & mustered companies & artillery.

C. S. Craig
Naval Cadet U. S. N.

From 8 A. M to Meridian:
Overcast, rainy, gloomy weather: light breeze from N. W. by N. . Finished swinging to flood at 11:20. Exercised at battalion drill on board ship. At 9.36 made sick report by signal "3" Answered.

Hugh Rodman
Ensign U. S. N.

From Meridian to 4 P. M.
Overcast & raining. Gentle breeze from North. At 1:40 flagship signaled, telegraphic code, Battalion will not land tomorrow.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M:
Overcast, rainy weather, gentle breeze & airs from North. Finished swinging to ebb at 6:00. At 4:08 flagship made "Prep 6.45"; Answered, & at 4:13 sent down top gallant yards.

Hugh Rodman
Ensign U. S. N.

From 8 P. M to Midnight:
Overcast & squally. Light to gentle breeze from N. by E.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			E by N.	N. by W.	3			30.05	61	60	58		0.8.g.	Cum.	0	3
2	"			"	"	3			30.06	60	59	57		"	"	0	"
3	"			E. N. E.	N. N. W.	3			30.06	60	59	57		"	"	0	"
4	"			"	"	2			30.07	60	58	56		0.C.	"	0	"
5	Ebb			W. by N.	N. W.	3			30.08	59	58	56		"	"	0	"
6	"			West	N. by W.	3			30.09	59	58	56		"	"	0	"
7	"			"	"	3			30.10	57	56	54		"	"	0	"
8	"			"	"	3			30.12	57	56	53		"	"	0	"
9	"			"	N. W.	3			30.19	56	55	52		"	"	0	"
10	"			"	"	3			30.19	56	55	52		b.c.	"	0	"
11	"			"	"	2			30.19	57	56	53		"	"	5	"
Noon.	Flood			N. N. E.	"	2			30.18	58	57	53		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, . . . "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, tons 1570 lbs.

Coal remaining on hand at Noon, 104 " 1488 "

P. M.										
1	Flood	E by N.	N. W.	3	30.17	59	57	54	b.c. Cum.	2 S
2	"	"	"	3	30.16	60	57	54	0.C. "	0 "
3	"	"	"	3-4	30.16	59	55	53	0.C.g. "	0 "
4	"	"	N W by N.	3-4	30.17	59	55	52	" "	0 "
5	Ebb	N. N. W.	"	3-4	30.18	58	55	52	" "	0 "
6	"	West.	"	3	30.18	58	55	52	" "	0 "
7	"	"	"	3	30.20	58	55	52	" "	0 "
8	"	"	N. W.	3	30.24	57	55	52	0.C. "	0 "
9	"	"	"	3	30.27	55	54	52	" "	0 "
10	"	"	"	3-4	30.29	54	53	51	0.C.d.g. "	0 "
11	"	"	"	4-5	30.30	53	52	50	0.C.g. "	0 "
Mid.	"	"	"	4-5	30.30	53	52	50	" "	0 "

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday November 21st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Cloudy. Gentle breeze from N by W & NNW.
Flood tide.

J. J. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.
Overcast & cool, gentle breeze from NW. to N by W. Received on board in Pay. Dept. 107½ lbs fresh beef, 107½ lbs fresh vegetables & 86 lbs. fresh bread. At 7:25 flagship made time & uniform signal, Gen pennant, "645". Answered. At 7:34 flagship made gen. sig. prep "6144", & Crossed T.G.A. yards. Finished swinging to ebb at 5:38

Wm. H. Rodman
Ensign U.S.N.

From 8 A.M. to Meridian:
Overcast, cool & pleasant. Light to gentle breeze from N.W. At 9:30 mustered crew at quarters & exercised as follows: 1st, 2nd, 3d & powder division, single sticks; Nav. division, resolvers. At 11:30 began swinging to flood. At 11:35 flagship made telegraphic signal Battalion, will land tomorrow.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.:
Overcast & cloudy nearly all watch. Gentle to moderate breeze from N.W. & N.N.W. blowing in squalls at times. Flood tide. Strength of current at 3:00, 1.2 knots. Transferred A. Hansen (C.Q. Foreman) to the U.S.S. "Marion". Wm. Kerrigan (2 C.Q. Foreman) was transferred to this ship from the "Marion" Flagship made telegraphic signals 8055, 9072, 9319, & 3871. Received on board in Equipment Dept. three grate bars for the galley.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 P.M.:
Overcast & squally. Gentle to moderate breeze from N.W. and W.N.W. by W.

W. B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight:
Overcast, cloudy & cool. Gentle to fresh breeze from N.W. blowing in squalls at times. Light drizzling rain 2nd hour of watch. Ebb tide

C. S. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N.E.	N.W.	3-4			30.30	52	49	47		o.c.q.	Cum.	0	S
2	"			E.N.E.	"	3-4			30.30	52	48	47		"	"	0	"
3	"			"	"	3-4			30.30	52	48	46		"	"	0	"
4	"			"	"	3-4			30.30	51	47	46		"	"	0	"
5	Ebb			N by N.	"	3-4			30.30	48	46	44		b.c.q.	"	2	"
6	"			"	"	3			30.31	48	46	44		"	"	5	"
7	"			"	"	3			30.39	48	45	42		"	"	7	"
8	"			"	"	3			30.39	49	45	42		"	"	7	"
9	"			"	"	3			30.39	50	48	44		b.c.	"	7	"
10	"			"	"	3			30.39	53	50	46		"	"	7	"
11	"			"	"	3			30.39	53	52	48		"	"	7	"
Noon.	"			"	"	3			30.39	55	53	48		"	"	7	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 13100 "

Coal consumed during the preceding 24 hours, 1 tons 410 lbs.

Coal remaining on hand at Noon, 103 " 1078 "

P. M.										
1	Flood	N. by E.	N.W.	3	30.40	55	53	48	b.c.	Cum.	7	S
2	"	"	"	3	30.40	55	53	48	"	"	7	"
3	"	"	"	3	30.40	54	51	44	"	"	3	"
4	"	E.N.E.	"	3	30.40	53	51	48	"	"	4	"
5	"	"	"	2	30.40	51	49	46	"	Cir. Cum.	5	"
6	Ebb	West	"	2	30.41	50	49	46	"	"	7	"
7	"	"	"	2	30.42	48	47	44	"	"	8	"
8	"	"	"	1	30.41	48	47	44	"	"	8	"
9	"	"	"	1	30.40	46	46	44	"	"	10	"
10	"	"	"	1	30.40	45	45	43	"	"	10	"
11	"	"	"	1	30.40	45	44	42	"	"	10	"
Mid.	"	"	N.W.	1	30.40	44	44	42	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday November 22nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.
Overcast. Moonlight. Gentle breezes with moderate squalls from N. W. At 1:15 swung to flood.

B. F. Waring
Lieut U.S.N.

From 4 to 8 A. M: Overcast & cloudy. Gentle to Mod. breeze from N. W. At 7:00 Flag made signal, telegraphic "Prepare to land brigade. At 7:45 Flag made signal, telegraphic "Land brigade". Brigade left ship at 7:47. By order of the Comdg Officer released Pvt Michael Patten from confinement for duty in battalion.

W. B. Hoggatt
Ensign U.S.N.

From 8 A. M. to Meridian:
Clear & cold - gentle breezes from N. W. Tide, ebb.

C. H. Galloway
Lieut U.S.N.

From Meridian to 4 P. M.
Clear cool weather. Gentle breezes from N. W. Discharged from this ship & the U.S. Naval Service, at their own request, & waiving all claims for public aid & transportation, Ah Chung (Lds) & K. Sudzuki (Lds), Recd from U.S.S. "Omaha" Henry Lancaster (P.M). Reconfined Michael Patton (P.M). At 12:10 commenced swinging & at 12:25 swung to flood. Current 3 knots. Battalion returned from Brigade drill at 12:15

B. F. Waring
Lieut U.S.N.

From 4 to 8 P. M:
Fair, cool & pleasant. Light breeze from N. W. Slack water at 4:45 & swung to the ebb tide. At 4:10 "Marion" made preparatory & execution signal 6143, & sent down topgallant yards.

C. A. Craig.
Naval Cadet U.S.N.

From 8 P. M. to Midnight:
Clear & cool. Light airs from N. W. Riding to the ebb. Current 2.8 knots. At 8:00 commenced distilling.

B. F. Waring
Lieut U.S.N.

Examined and found to be correct.

C. H. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	N.W.	2			30.40	44	42	40		b.	None	10	5
2	Flood			E.N.E.	"	2			30.40	43	41	40		"	"	10	"
3	"			"	"	2			30.40	43	42	41		"	"	10	"
4	"			"	"	1-2			30.39	43	42	41		"	"	10	"
5	Ebb			N. by N.	"	1			30.38	43	42	41		b. r.	"	10	"
6	"			"	"	1			30.37	43	42	42		"	"	10	"
7	"			"	"	1			30.38	44	43	42		"	"	10	"
8	"			"	"	1			30.40	46	44	43		"	"	10	"
9	"			"	"	1			30.41	48	46	44		b.	"	10	"
10	"			"	"	1			30.42	49	47	45		"	"	10	"
11	"			"	East	2			30.42	52	49	46		"	"	10	"
Noon.	"			"	"	2			30.40	52	51	48		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended ~~during~~ the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1300 "

Water remaining on hand fit for use at Noon, 2300 "

Coal consumed during the preceding 24 hours, 1 tons 1760 lbs.

Coal remaining on hand at Noon, 101 " 1558 "

P. M.									
1	Flood	E. by N.	East	1	30.35	54	53	49	b. None 10
2	"	East	S. E.	2	30.30	54	53	49	b. q. Cumy. 8
3	"	"	East	2	30.30	54	53	49	" " 8
4	"	"	"	2	30.30	54	53	49	" " 8
5	"	E. by N.	"	2	30.30	54	53	49	" " 8
6	Ebb	E. by S.	"	2	30.30	54	53	49	" " 7
7	"	W. S. W.	"	2	30.30	54	53	49	" " 7
8	"	W. by S.	"	1	30.29	54	54	51	" " 8
9	"	"	Calm.	0	30.29	54	54	51	" " 8
10	"	"	"	0	30.29	54	54	51	" " 5
11	"	"	"	0	30.28	54	54	52	" " 2
Mid.	"	West	S. W.	1	30.28	54	54	52	" Cir Cumy. 1

under the command of Commander T. F. Jewell, U. S. Navy,
Friday November 23d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Clear & cool, light breeze from N. W. Finished swinging to flood at 2:00. Distilling

H R Hughes Rodman
Ensign U. S. N.

From 4 to 8 A. M:
Clear, cool & pleasant. Light airs from N. W. Slack water at 5:00 & swung to the ebb tide. Recd on board in Pay Dept. & issued to the crew, 87 lbs. fresh bread. At 7:30 flagship made time & dress signal 645, & afterwards preparatory & execution signals 606 & 5456. Crossed topgallant & royal yards, & loosed sail to a bowline. Cleaned bilges.

C. A. Craig
Naval Cadet U. S. N.

From 8 A. M to Meridian:
Light airs from N. W. Light breezes from East. At 9:30 inspected at quarters. At 9:36 sounded fire alarm. All divisions ready in 2 min. A board of survey, of which Lieut. P. F. Hutchins U. S. N. is Senior Member, met on board to survey fire hose. At 11:30 shortened & furled sail in obedience to signal. Riding to the ebb; current 2.4 knots.

B. F. Wareing
Lieut U. S. N.

From Meridian to 4 P. M.:
Clear & pleasant; light breezes from East to S. E. Finished swinging to flood at 12:40. C. Knight (Lds) was discharged from this ship & the U. S. Naval Service, his term of enlistment having this day expired.

Hugh Rodman
Ensign U. S. N.

From 4 to 8 P. M:
Clear, cool weather. Light airs & breezes from East. At 4:30 sent down royal yards in obedience to signal. At 5:55 commenced swinging to ebb. Distilling

B. F. Wareing
Lieut U. S. N.

From 8 P. M to Midnight:
Clear to cloudy; calm & light airs from S. W. Riding to ebb.

Hugh Rodman
Ensign U. S. N.

Examined and found to be correct.

T. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	S. W.	1			30.28	53	53	52		b.c.	Cumu Nimb	1	S
2	"			N. N. W.	Calm	0			30.28	53	54	52		"	"	1	"
3	Flood			E. by N.	"	0			30.25	53	53	51		"	"	1	"
4	"			"	"	0			30.25	52	53	51		"	"	1	"
5	"			"	North	1			30.25	52	52	51		"	"	2	"
6	Ebb			N. W. by N.	N. W.	1			30.28	52	52	51		"	"	2	"
7	"			West	"	1			30.29	52	52	51		"	"	1	"
8	"			"	"	1			30.29	54	52	51		o.c.	"	0	"
9	"			"	"	2			30.30	54	52	51		b.c.	Cir Cum.	1	"
10	"			"	"	2			30.32	56	52	52		"	"	4	"
11	"			"	"	2			30.32	56	54	52		"	"	4	"
Noon.	"			"	"	2			30.31	57	55	52		"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 800 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 1 tons 500 lbs.

Coal remaining on hand at Noon, 100 " 1058 "

P. M.														
1	Ebb	N. W. by N.	N. W. by N.	2	30.28	58	58	52	b.c.	Cum Nimb	2	S
2	Flood	E. N. E.	"	3	30.28	58	57	52	"	"	2	"
3	"	E. by N.	"	3	30.26	58	56	52	"	"	5	"
4	"	"	"	3	30.27	57	55	52	"	"	8	"
5	"	"	N. N. W.	2	30.29	56	55	53	"	Cir. Cum.	5	"
6	"	"	"	1	30.29	56	55	53	"	"	7	"
7	"	E. N. E.	"	1	30.31	55	54	52	"	"	8	"
8	Ebb	West	"	1	30.33	54	54	52	"	"	8	"
9	"	"	"	1	30.34	54	53	51	b.c.10.	"	9	"
10	"	"	N. W. by N.	1	30.34	53	52	50	"	"	9	"
11	"	"	"	1	30.33	53	52	50	"	"	9	"
Mid.	"	"	"	1	30.33	53	51	49	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday November 24th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Cloudy & pleasant. Calm, & light airs from S. W.

WBH W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.:
Cloudy, pleasant weather. Light airs from North & N.W. Swung to ebb tide at 5:35. Received on board in Pay Dept. & issued to crew, 85 lbs fresh bread & 106¼ lbs. each fresh beef & vegetables.

From 8 A. M to Meridian:

B. F. Welling
Lieut U. S. N.

Fair & pleasant, light breeze from N. W. Mustered & inspected crew at quarters, inspected bags, sewed out clean hammocks & aired bedding. At 11:26 flagship made "gen. sig. 2240". Answered & piped down aired bedding. Discharged Ezra Lewis (C.H.) from this ship & the U. S. Naval Service at his own request.

HAR Hugh Rodman
Ensign U. S. N

From Meridian to 4 P. M.:
Partly clear, cool. Light to gentle breeze from N.W. by N. Transferred John Quinn (seaman) to U.S.S. Omaha. A. Tollefsen (seaman), returned from treatment at the civil hospital on shore. Swung to flood at 1:30.

WBH W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.:
Clear & pleasant, light breeze & airs from N.N.W.. Riding to ebb.

HRod Hugh Rodman
Ensign U. S. N.

From 8 P. M to Midnight:
Clear & cool. Light airs from N.W. by N.

WBH W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze Rivir at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	N.W. by N.	1			30.35	50	50	48		b.c.w.	Cir cumr.	9	S
2	"			"	"	1			30.34	50	49	47		"	"	9	"
3	Flood			E.N.E.	"	1			30.34	50	48	46		"	"	8	"
4	"			"	"	1			30.34	50	48	47		"	"	8	"
5	"			"	"	1			30.35	48	49	47		"	"	8	"
6	"			"	"	2			30.35	48	48	47		"	"	8	"
7	Ebb			N.N.W.	N. by E.	2			30.34	51	48	47		"	"	8	"
8	"			West	North	2			30.35	51	49	47		"	"	8	"
9	"			"	"	2			30.38	54	52	49		b.c.	"	7	"
10	"			"	"	2			30.40	55	53	50		"	"	6	"
11	"			"	N.N.E.	2			30.40	55	54	50		"	"	6	"
Noon.	"			"	"	2			30.40	56	54	50		"	"	4	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 25.00 "

Coal consumed during the preceding 24 hours, 1 tons 320 lbs.

Coal remaining on hand at Noon, 99 " 738 "

P. M.																	
1	Ebb		West		N.N.E.	2			30.39	57	55	51		b.c.	Cir cumr	6	S
2	Flood		N.E. by E.		"	2			30.37	57	55	50		"	"	3	"
3	"		E.N.E.		"	2			30.36	57	55	50		"	"	4	"
4	"		E. by N.		"	2			30.36	57	55	51		"	"	4	"
5	"		"		N.E.	2			30.38	56	55	51		"	"	4	"
6	"		"		"	2			30.38	55	54	51		"	"	4	"
7	Ebb		E.N.E.		"	2			30.39	55	54	51		"	"	4	"
8	"		West		"	1			30.39	55	54	51		"	"	4	"
9	"		"		North	1			30.40	53	53	51		"	"	5	"
10	"		"		N.N.W.	1			30.41	53	53	50		"	"	7	"
11	"		"		"	1			30.41	52	52	49		"	"	7	"
Mid.	"		"		N.W.	1			30.41	52	52	49		"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday November 25th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Clear, cool & pleasant. Light airs from N. W by N.
At 2:25 swung to flood

T. J. Boodman
Ensign U.S.N.

From 4 to 8 A. M.:
Clear & cool; light airs & breeze from N. W. by N. to N by E.. Finished swinging to ebb at 6:30. H. M. S. Rambler came in. Received on board in Pdy Dept. 84 lbs. fresh bread. At 7:25 flagship made time & uniform signal "615", answered.

Hy J Wadman
Ensign U.S.N.

From 8 A. M to Meridian:
Partly clear, cool. Light breeze from North & N.N.E.. At 8:30 sent boarding officer to H. B. M. S. Rambler. At 9:30 the Comdg Officer inspected ship with crew at quarters. The following named naked men were absent without leave: James Farrell (Chf. Qr. Mr.) Wm Kerrigan (2 C. F.) Carl Petterson (O.S.) John F. Conery Pvt, & James Halpin Prot. At 9:30 made signal, numeral "2"

W B Hoggatt
Ensign U.S.N

From Meridian to 4 P. M.:
Fair, cool & pleasant weather. Light breeze from N.N.E.. At 2:00 swung to flood. A Chinese man-of-war passed up the river.

T. J. Boodman
Ensign U.S.N.

From 4 to 8 P. M:
Partly clear, cool. Light airs & breeze from N. E.

W B Hoggatt
Ensign U.S.N.

From 8 P. M to Midnight:
Clear, cool & pleasant. Bright moonlight. Light airs from North & N.N.W. Ebb tide. By order of Comdg Officer placed Jas. Horan (W Tdr.) under sentry's charge for intoxication. Corpl. Bussman (U.S.M.C.) returned on board 10¾ hrs. over time. Jas Farrell (Chf. Qr. Mr.) was brought on board 3½ hrs. over time by U.S. Marshal

T. J. Boodman
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtsz River at Shanghai River.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	North	1			30.40	51	51	49		b.c.	Cir. Cum.	4	3
2	"			"	"	1			30.40	51	51	49		"	"	4	"
3	"			N. by N.	"	1			30.40	51	52	50		"	"	8	"
4	"			N. by E.	"	1			30.40	51	52	50		"	"	8	"
5	Flood			E. by N.	"	1			30.40	52	51	49		"	"	3	"
6	"			E. N. E.	"	1			30.39	54	52	49		o. c.	"	0	"
7	"			N. N.	N. E. by N.	1			30.40	53	51	49		"	"	0	"
8	Ebb			W. ¾ N.	N. E. by E.	1			30.41	53	52	50		"	"	0	"
9	"			W. ¼ N.	"	1			30.44	54	53	51		"	"	0	"
10	"			"	N. N. E.	2			30.43	57	54	50		b.c.	"	1	"
11	"			"	E. N. E.	2			30.41	57	55	51		"	"	1	"
Noon.	"			"	"	2			30.40	60	56	52		"	"	3	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: { Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. { Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. { Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, tons 1570 lbs.

Coal remaining on hand at Noon, 98 " 1408 "

P. M.														
1	Ebb	West	N by W.	2	30.40	58	56	52	b.c.	Cir. Cum.	3	3
2	"	W by N.	"	2	30.40	58	56	52	"	"	3	"
3	Flood	E. N. E.	N. E.	2	30.40	58	56	52	"	"	3	"
4	"	"	North	2	30.40	59	56	52	"	"	2	"
5	"	E. by N.	"	1	30.39	59	56	52	"	"	1	"
6	"	"	"	1	30.37	56	55	52	"	"	7	"
7	"	"	"	1	30.37	55	54	52	"	"	8	"
8	"	"	"	1	30.37	56	54	52	"	"	8	"
9	Ebb	N. by N.	"	1	30.40	54	54	51	"	"	8	"
10	"	West	"	1	30.40	52	53	50	"	"	8	"
11	"	"	"	1	30.40	52	52	50	"	"	8	"
Mid.	"	"	"	1	30.40	52	52	50	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday November 26th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Fair & pleasant. Light airs from North. Ebb tide.

C. S. Craig
Naval Cadet U.S.N.

From 4 to 8 A. M.:
Cloudy & pleasant. Light airs from North to N. E. by E. Recd in Pay Dept. for use of crew, 105 lbs. each of beef & vegetables & 84 lbs. bread. At 6:45 Flag made signal prepare to land brigade; at 7:30 dress signal; at 7:45 "land brigade. At 7:47 brigade left the ship.

W. B. Hoggatt
W. B. H. Ensign U.S.N.

From 8 A. M. to Meridian:
Generally cloudy, raw & cool; light breeze from North veering to E. N. E. Ship riding between moderately strong ebb tide & wind. George Bannister (o.s.) returned on board 20 hrs. over time, sober. F. Smith (o.s.) returned on board 20½ hrs. overtime, dead drunk. At request of U.S. Consul General sent an officer to the Consulate, to represent ship, in case of F. Johnson (seaman). Charged with assault. Sent offers of reward ashore for men over liberty. At 11:45 Lieut B. F. Walling returned from the Consulate. F. Johnson (seaman) returned on board, having been released from Consular court.

C. D. Galloway
C.N.
Lieut U.S.N.

From Meridian to 4 P. M.:
Cloudy & cool. Light breezes from N by W, N. E. & North. Slack water at 3:00 & swung to the flood tide. Battalion returned to the ship at 12:30. By order of Comdg Officer, Jas. Horan (W. Tdr.) was disrated to the next inferior rating for drunkenness on duty. The following articles were transferred to this vessel from the U.S.S. "Omaha": 1 set main brace ash hoisting engine, 1 set crank-pin brasses, 1 set eccentric rod brasses, three 2 light electroliers, twelve 1 light state room fixtures, 6 powder tanks, 700 lbs. (Standard). Comdg Officer of H.B.M.S. "Rambler" paid an official visit on the Commander.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 P. M.:
Cloudy, increasing to fair weather. Cool. At 4:04 Flagship made Prep. 6:40. Ansd. Sent down t.g. yards & masts. Scraped t.g. masts. Flood tide.

F. Jewell
F J N
Ensign U.S.N.

From 8 P. M. to Midnight.
Clear & cool. Light airs from North. Slack water, & swung to the ebb tide about 9:00. Moon rose at 11:40

C. S. Craig.
Naval Cadet U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Shits Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	North	1			30.39	53	51	49		b.c.w.	Cir cum.	6	S
2	"			"	"	1			30.38	56	51	49		"	"	9	"
3	"			"	"	1			30.37	61	52	49		"	"	9	"
4	"			"	"	1			30.37	61	50	48		"	"	9	"
5	Flood			N.E.	"	1			30.36	56	50	48		"	"	4	"
6	"			E.N.E.	"	1			30.35	56	50	48		"	"	3	"
7	"			"	"	1			30.36	56	51	49		b.g.	"	6	"
8	"			"	"	1			30.36	52	50	49		"	"	5	"
9	Ebb			W.N.W.	"	1			30.35	54	52	50		"	"	2	"
10	"			West	"	1			30.35	55	53	51		"	"	6	"
11	"			"	Calm	0			30.36	54	53	52		"	"	8	"
Noon.	"			"	North.	1			30.35	61	52	53		"	"	8	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: { Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. { Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. { Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 1 tons 230 lbs.

Coal remaining on hand at Noon, 97 " 1178 "

P. M.											
1	Ebb	West.	N. by E.	1	30.34	59	57	52	b.c.	Cir cum.	3	S
2	"	"	"	1	30.33	59	57	53	"	"	3	"
3	"	"	North	1	30.32	61	58	54	"	"	5	"
4	Flood	N.E.	"	1	30.32	60	57	53	"	"	5	"
5	"	E. by N.	N.E.	1	30.31	58	57	53	"	"	6	"
6	"	"	"	1	30.31	57	56	53	"	"	6	"
7	"	"	"	1	30.30	55	55	53	"	"	8	"
8	"	"	"	1	30.30	54	55	53	b.	None	10	"
9	"	"	"	1	30.30	55	55	52	"	"	10	"
10	Ebb	S.W.	Calm	0	30.31	54	54	52	"	"	10	"
11	"	West	"	0	30.30	54	53	51	"	"	10	"
Mid.	"	"	"	0	30.30	54	53	51	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday November 27th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M:
Clear, cool weather. Light airs from North. Heavy dew. Riding to the ebb.

D. T. Wagging
Lieut U.S.N.

From 4 to 8 A.M:
Fair & cool. Light airs from North. At 5:05 swung to flood. Recd in Pay Dept. 84 lbs fresh bread. Flagship made Sig. 6415 & at 7:3 Prep. 6444. Aniad. & sent up t.g. masts & yards.

J. J. Sowerwine
Ensign U.S.N.

From 8 A.M to Meridian:
Generally clear & pleasant. Calms, & light airs from North. Slack water from 8:00 to 9:00 & swung to the ebb tide. Comdg Officer paid an official visit to H.B.M.S. Rambler. Weighed all the wet gun-cotton & found it in good condition. Tested all the dry gun-cotton & flood cock of gun-cotton magazine, & found them in good condition. Sent an officer to the U.S. Consulate to represent the ship in the case of J. McGuire (C.S.), charged with disorderly conduct & drunkenness. At 9:30 Mustered at quarters, the following men being absent without leave: Wm Kerrigan (Y.C.S.), J.F. Conery (P.M.), J.A. Richards (C.S.) C.V. Haling (sea), S.E. Kendricks (oiler) W.B. Emerson (C.K.) G. Todonsco (Y.C.S.) R. Doyle (Y.C.S.) F. Allen (P.M.), Jos. Kohler (P.M.), Jas. Hilley (P.M.) Exercised 1st & 2nd companies at company drill, & Artillery at howitzer drill.

C. S. Craig
Naval Cadet U.S.N.

From Meridian to 4 P.M:
Fair pleasant weather. Light airs from North, & Calms. By order of Comdr-in-Chief, transferred ten (10) service revolvers to U.S.S. Omaha, & received in their place, ten (10) revolvers, condemned by survey. Chas. Campbell (sea) reported on board having been transferred from U.S. Naval Hospital, Yokohama, Japan. Jas Hilley P.M. & S.E. Kendricks (oiler), were brought on board by police, being absent without leave. Placed under sentry's charge, by order of Comdg Officer, Geo. Young (sea) for safe keeping. At 9:10 swung to ebb. Flagship made telegraphic signals as per signal book; at 3:20: 8277, 1233, 6547, 9449, 4097; at same time: 9470, 1673, 0931, 1767, 6590, 546, 4097, 771, 9449, 3802; at 3:40: 8277, 4704, & 6544.

D. T. Wagging
Lieut U.S.N.

From 4 to 8 P.M:
Fair & pleasant. Light airs from N.E. Flood tide. At 4:10 Flagship made preparatory & execution signal 6143. Sent down topgallant yards. By order of Comdg Officer, released H. Young (sea) from Sentry's charge, he being sober. Paid the following rewards to the U.S. Marshal: Jas. Hilley (PM) 10 mex., Jos. Kohler P.M. 10 mex., S.E. Kendricks (oiler) two rewards of 10 mex. each.

C. S. Craig
Naval Cadet U.S.N.

From 8 P.M. to Midnight:
Clear cool weather. Light airs from N.E, & Calms. At 9:40 swung to ebb.

D. T. Wagging
Lieut U.S.N.

Examined and found to be correct.

Expended 36 steel vent closing primers; transferred to U.S.S. Omaha by order of Comdr-in-Chf.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M. 1	Ebb			West	Calm	0			30.30	52	52	50		b.c.	Cir. Strat.	8	
2	"			"	"	0			30.30	51	50	49		"	"	9	
3	"			"	"	0			30.30	51	50	49		"	Cir Cum.	8	
4	"			"	"	0			30.30	51	50	49		"	"	8	
5	"			"	"	0			30.30	54	52	50		"	"	5	
6	"			N.N.W.	N. E.	1			30.30	54	53	52		"	"	2	
7	Flood			E. by N.	E. by N.	1			30.30	55	54	52		"	"	2	
8	"			"	"	1			30.30	55	54	52		"	"	2	
9	"			"	"	2			30.30	56	55	53		O.O.	"	0	
10	"			East	E.S.E.	2			30.31	57	57	55		"	"	0	
11	"			E.S.E.	"	2			30.29	58	57	56		o.c.d.	Cum Numb.	0	
Noon.	Ebb			West	"	2			30.30	58	57	56		"	"	0	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 1 tons 680 lbs.

Coal remaining on hand at Noon, 96 " 498 "

P. M.													
1	Ebb	N.S.W.	East	2	30.26	58	57	56	O.C.d.	Cum Numb.	0	S	
2	"	"	E.S.E.	2	30.23	58	57	56	"	"	0	"	
3	"	"	"	2	30.21	58	57	56	O.C.N.	"	0	"	
4	"	N. by S.	"	2	30.21	58	57	56	"	"	0	"	
5	Flood	S. W.	East	2	30.21	59	57	56	"	"	0	"	
6	"	E. by S.	"	2	30.24	58	58	57	"	"	0	"	
7	"	"	"	2	30.20	58	58	57	"	"	0	"	
8	"	East	"	2	30.19	58	58	57	"	"	0	"	
9	"	"	S. E.	3	30.18	59	59	58	O.C.	"	0	"	
10	"	E.S.E	"	3	30.16	60	59	58	"	"	0	"	
11	"	S.S.E	"	3	30.15	60	59	58	"	"	0	"	
Mid.	Ebb	S. W.	"	3 5	30.14	61	60	59	O.C.g.	"	0	"	

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday November 28th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear & calm. Riding to ebb.

From 4 to 8 A.M.: HPR Hugh Rodman
Ensign U.S.N.
Fair first part of watch; clouding over latter part. Calms, & light airs from N.E. & E. by N. Slack water at 6:00 & swung to the flood tide. At 7:30 Flagship made time & dress signal 6.45, & immediately afterwards, preparatory & execution signals 6.44. Crossed topgallant yards. Reid on board in Pay Dept. & issued to the crew 84 lbs fresh bread & 105 lbs. each of fresh beef & vegetables. Hoisted out sailing launch & made preparations for arming boats.

From 8 A.M. to Meridian C. D. Craig.
Naval Cadet U.S.N.
Overcast; drizzling rain last two hours. Light breezes from E. by N. & E.S.E. At 9:30 inspected at quarters. Exercised at stations. At 9:40 called away all boats armed & equipped, in obedience to signal & sent them alongside Flagship for inspection. By order of Commanding Officer, confined John Patton (sea) in double irons, for three days for profanity. Flagship made Gen. Sig. 155 & telegraphic 8055, 9072, 9319, 3821, 9422, 629, 9421. Swung to ebb at 10:45. Absent without leave, J. F. Conroy (P.M.), W. B. Emerson (C.H.), Michael Fitzgerald (C.H.), Wm Branagan (C.H.), Wm Sluiners (P.M.),

From Meridian to 4 P.M.: B. T. Wadleigh
Lieut U.S.N.
Overcast rainy weather; light breeze from East to E.S.E. Corp. J. H. Bussmann (U.S.M.C.) with necessary papers was transferred to the Omaha & John Quinn (sea), Pat. Mayrahan (Sergt.), & James Milburn (P.M.) with necessary papers were transferred to this ship. M. Fitzgerald (C.H.) & W.B. Emerson (C.H.) returned on board 72 hrs. after expiration of leave. Riding to Ebb.

From 4 to 8 P.M.: HR Hugh Rodman
Ensign U.S.N.
Overcast, rainy weather. Light breezes from East. Wm Sluiners (P.M.) was brought on board by the police. At 5:00 swung to flood.

From 8 P.M. to Midnight: B. T. Wadleigh
Lieut U.S.N.
Overcast & rainy, gentle breeze to moderate squalls last hour, from S.E. Finished swinging to ebb at 11:55

HR Hugh Rodman
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			W.S.W.	S.W.	3-4			30.13	60	60	59		b.c.g.	cum.	1	3
2	"			"	"	3-4			30.12	60	60	59		"	"	2	"
3	"			"	"	3-4			30.10	60	60	59		"	"	1	"
4	"			W by S.	"	2-3			30.08	60	60	59		o.c.	"	0	"
5	"			"	W. by N.	2			30.08	60	60	59		o.c.q.	cum nmb.	0	"
6	"			West	"	2			30.08	60	59	58		"	"	0	"
7	"			"	"	2			30.08	60	58	57		o.c.	"	0	"
8	Flood			N.E.	"	2			30.10	59	58	56		"	"	0	"
9	"			E.N.E.	W.N.W.	3-5			30.14	60	57	55		"	"	0	"
10	"			N.E.	"	3-5			30.15	57	54	53		o.c.q.	"	0	"
11	"			N.W.	"	3-5			30.15	56	54	52		"	"	0	"
Noon.	Ebb			N.N.W.	"	4-5			30.14	56	54	53		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, tons 2020 lbs.

Coal remaining on hand at Noon, 95 " 718 "

P. M.										
1	Ebb	West	N.N.W.	4	30.17	57	56	53	o.c.p.	cum nim.	0
2	"	"	N.W.	4	30.12	57	55	54	"	"	0
3	"	"	"	3	30.14	58	55	54	"	"	0
4	"	"	N.N.W.	2	30.16	57	56	54	"	"	0
5	"	"	N. by E.	2	30.18	57	55	54	o.c.	"	0
6	"	"	"	2	30.20	57	56	55	"	"	0
7	Flood	N.N.W.	N.N.E.	2	30.23	56	56	55	"	"	0
8	"	E.N.E.	"	2	30.24	56	55	54	b.c.	"	1
9	"	"	"	2	30.26	56	55	54	"	Cum.	2
10	"	"	"	2	30.28	56	55	54	o.c.	"	0
11	"	"	"	1	30.29	56	55	54	b.c.	"	8
Mid.	"	"	"	1	30.28	55	54	53	"	"	6

under the command of Commanding T. F. Jewell, U. S. Navy,
Thursday November 29th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Overcast & squally. Light to moderate breeze from S.W.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 A. M:
Overcast, rainy weather. Light breezes from N. by N. Recd on board & issued to crew 108 3/4 lbs. fresh beef, 108 3/4 lbs. fresh vegetables & 87 lbs. fresh bread. At 7:30 commenced swinging & at 8:00 swung to flood.

D. T. Wagner
Lieut U.S.N.

From 8 A.M. to Meridian:
Overcast with indications of clearing; gentle to fresh breeze from N.N.W., with occasional moderate squalls last three hours. At 10:25 Flagship made signal 3092 - Answd - Sent Marine officer to Marion in obedience to signal. At 10:30 by direction of Comdg Officer released prisoners W.H. Skinner (P.M.) & John Patton (Seaman), for the remainder of the day. At 11:30 flagship made gen. sig. 2072 & furled awnings in obedience thereto. Dn a gig race between the Omaha & this ship, the Essex won. Finished swinging to flood at noon. Wm Keegan (O.S.), was found absent from the ship without leave.

H.H. Hufty Rodman
Ensign U.S.N.

From Meridian to 4 P.M:
Overcast with occasional drizzling rain. Light to gentle breeze from N.N.W to N.W. J.F. Conery O.S. was brought off by the police 22½ hrs. over time. Sent liberty party on shore

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M:
Overcast & cloudy; light breeze from N.E. to N.N.W. Wm Keegan (O.S.), who left the ship without permission, was brought on board by the police authorities & confined in double irons, for safe keeping. Finished swinging to flood at 7:20.

H.H. Hufty Rodman
Ensign U.S.N.

From 8 P.M to Midnight:
Clearing, pleasant weather. Light airs & breeze from N.N.W.

W.B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C.D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	N.W.	3			30.30	54	52	50		o.c.g.	Cum.	0	S
2	"			"	"	3-4			30.30	54	52	50		"	"	0	"
3	"			"	"	3-4			30.31	53	51	49		b.c.g.	"	8	"
4	"			"	"	3-4			30.32	52	51	49		"	"	8	"
5	"			"	"	3-5			30.34	52	50	48		"	"	4	"
6	"			"	"	3-5			30.37	50	49	47		"	"	4	"
7	"			"	N.N.W.	3-5			30.40	50	48	46		"	"	3	"
8	"			"	"	3-5			30.45	51	48	46		"	Cir Cum.	7	"
9	Flood			N.N.W.	"	4			30.48	48	47	43		b.c.	"	7	"
10	"			"	"	4			30.50	48	46	43		"	"	5	"
11	"			"	"	4			30.50	48	46	43		"	"	5	"
Noon.	"			"	"	4			30.50	48	46	42		"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 800 "

Water remaining on hand fit for use at Noon, 1800 "

Coal consumed during the preceding 24 hours, 2 tons 160 lbs.

Coal remaining on hand at Noon, 93 " 558 "

P. M.														
1	Flood	N.N.W.	N.N.W.	3	30.51	48	46	42	b.c.	Cir. Cum.	3	S		
2	"	"	"	3	30.51	46	44	40	"	Cum.	1	"		
3	"	North	"	3	30.52	46	43	40	"	"	1	"		
4	Ebb	East	"	3	30.52	46	43	41	"	"	1	"		
5	"	S.E.	"	4	30.56	50	43	43	"	"	1	"		
6	"	S.E. by S.	"	4	30.58	51	48	42	o.c.	"	0	"		
7	"	"	N.W.	4	30.60	51	46	43	"	Cum.	0	"		
8	"	S.S.E.	"	4	30.60	50	47	44	"	"	0	"		
9	Flood	N.W. by W.	"	3	30.60	44	43	40	"	"	0	"		
10	"	"	"	3	30.60	43	40	38	"	"	0	"		
11	"	"	"	3	30.60	43	40	38	"	Numb.	2	"		
Mid.	"	"	"	3	30.60	42	39	37	"	"	4	"		

under the command of Commander T. F. Jewell, U. S. Navy,

Friday November 30th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:

Cloudy, suddenly increasing to fair & clear weather. Gentle breeze from N.W. Moderate squalls. At 12:45 swung to ebb tide. At 2:15 started fires in boilers 1, 3, 5, 6, 7 & 8 Private M. Patton (U.S.M.C.) returned on board 12 hours over time.

F. J. Soomro
Ensign U.S.N.

From 4 to 8 A. M.:

Cloudy to clear, wind in moderate squalls from N.W. to N.N.W. At 6:45 made "Int 2259", answered in affirmative by flagship, & at 6:50 got under way & steamed up to upper P & O. buoy & shackled stbd. chain to it at 7:15. At 7:25 flagship made time & uniform signal, "Geog. pennant 645". Answered, & then flagship made telegraphic signal "Routine is suspended for this morning & evening". Draft on getting under way & coming to anchor; forward 14 ft. aft 16 ft.

Hugh Rodman
Ensign U.S.N.

From 8 A. M to Meridian:

Partly clear, cool. Moderate breeze from N.N.W. At 9:20 Mustered crew at quarters. The following men were absent without leave: G. F. Cunningham (C.R.) P. Meitzel (C. Mate) & C. C. Larson (O.S.). Larson & Meitzel returned 2½ hrs over time. By order of Comdg. Officer sent an offer of ten mex. reward to U.S. Consulate Gen. for Cunningham. Wm. Kerrigan (P.C.) was given ten days in double irons for leaving ship without permission. At 9:10 began distilling. At 9:30 made signal Numeral "5"

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P. M.:

Cloudy & cool weather. Gentle breeze from N.N.W. Riding to wind & slack ebb tide. Sent a boarding officer to the American bark Sunbeam. Transferred Privates Flynn, Webb & Henry & Drummer Nebb (U.S.M.C.) to U.S.S. Omaha, with necessary papers, bags & hammocks. Received from U.S.S. Marion Ebenezer Green (O.S.) with necessary papers, bag & hammock. Swinging to ebb at end of watch.

F. J. Soomro
Ensign U.S.N.

From 4 to 8 P. M.:

Cloudy & cool. Mod. breeze from N.N.W & N.W. Paid rewards of ten mex. each for Privates Conery & Shuimers & W. Kerrigan (P.C.) & U.S. Court fine & costs in the case of W. Branagan (O.F.) brought off by U.S. deputy-marshal. Riding to ebb tide Distilling

W. B. Hoggatt
Ensign U.S.N.

From 8 P. M to Midnight:

Cloudy & cool. Gentle breeze from N.W. At 8:45 swung to flood tide. Distilling

F. J. Soomro
Ensign U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex 3d Rate,

Moored in the Yangtse River, at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N.W.	N.N.W.	3			30.60	42	39	37		O.C.	Cum.	6	S
2	Ebb			West	"	2-3			30.60	40	38	37		"	"	0	"
3	"			S. by E.	"	3			30.60	40	40	38		"	"	0	"
4	"			"	"	3			30.59	42	40	38		"	"	0	"
5	"			S.S.E.	"	3			30.57	44	42	40		S.C.	"	2	"
6	"			"	N.N.W.	2			30.57	46	42	40		"	"	6	"
7	"			"	"	2			30.59	47	40	39		"	Cir-Cum Strat.	6	"
8	"			"	"	2			30.59	49	39	38		"	"	4	"
9	"			"	N.W.	2			30.60	43	39	37		"	Cum.	1	"
10	Flood			N.N.W.	"	2			30.60	43	40	38		"	"	1	"
11	"			"	N.N.W.	2			30.58	44	46	39		"	"	4	"
Noon.	"			"	"	2			30.58	44	40	39		"	"	4	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1500 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 2 tons 600 lbs.

Coal remaining on hand at Noon, 90 " 2198 "

P. M.													
1	Flood	N.N.W.	N.W.	2	30.59	45	39	38	O.C.	Cum.	4	S	
2	Ebb	N.N.E.	"	2	30.60	46	39	37	"	"	4	"	
3	"	S.S.E.	N.W. by N.	2	30.56	47	43	40	O.C.	"	0	"	
4	"	S.S.E ½ E.	N.E. by N.	2	30.56	47	43	40	"	"	0	"	
5	"	"	"	2	30.50	47	47	45	"	"	0	"	
6	"	"	"	2	30.50	48	47	45	"	"	0	"	
7	"	S.S.E.	N.N.E.	2	30.50	48	47	45	"	"	0	"	
8	"	"	"	2	30.50	47	46	44	"	"	0	"	
9	"	"	N.W.	1	30.39	46	46	44	"	"	0	"	
10	Flood	N.N. by N.	"	1	30.48	46	45	43	"	"	0	"	
11	"	N.N.W.	W.N.W.	1	30.46	46	45	43	"	"	0	"	
Mid.	"	"	West	1	30.44	46	45	43	S.C.	"	2	"	

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday December 1st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast & cloudy. Light to gentle breeze from N.N.E. Slack water at 1:30 & swung to the ebb tide. Distilling

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 A. M.:
Partly clear, cool. Light to gentle breeze from N.N.W. to W.N.W. Read in Pay Dept. & issued to crew, 84 lbs fresh bread & 105 lbs. each fresh beef & vegetables.

W B Hoggatt
Ensign U.S.N.

From 8 A. M. to Meridian:
Cloudy, increasing to fair weather. Light breeze from N.W & N.N.W. At 9:30 swung to flood. Made Num. 4 at 9:30. Sent offers of reward ashore for men over time. At 10:00 Flag. made Tel. 1858, 0935, 6113 & 9411. Answd. At 11:30 Flag. made Tel. 7362, 9409, 6136 & 1858. Answd. Made preparations to land battalion

F. J. Downes
Ensign U.S.N.

From Meridian to 4 P. M.:
Fair & pleasant first two hours, overcast & cloudy latter part of watch. Light breezes from N.W., N.W by N. & N.E by N. Slack water about 2:00 & swung to the ebb tide. Transferred M. Patton (P.M.) from this ship to the U.S.S. "Marion" At 12:45 landed the battalion. At 12:55 Flagship made telegraphic signal 6115 & 1858. George Conboy (P.M.) returned on board 26 hrs. overtime.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 P. M.:
Overcast cloudy & raw weather. Light breeze from N.E by N. & N.N.E. Riding to ebb tide. Sent liberty party ashore. The battalion returned from drill ashore at 4:20. Wm Branagan (C.H.) was incarcerated in in the Shanghai Jail for falling down in ranks from beastly intoxication.

F. J. Downes
Ensign U.S.N.

From 8 P. M. to Midnight:
Overcast, cloudy & cool. Light airs from N.W., W.N.W. & West. Slack water at 10:00 & swing to the flood tide.

C. S. Craig
Naval Cadet U.S.N.

Examined and found to be correct.

L. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N.W. by N.	Calm	0			30.45	48	45	43		b.c.	Cumy.	2	S
2	"			"	"	0			30.45	48	45	43		"	"	2	"
3	Ebb			S.S.E.	E. by S.	1			30.40	46	46	44		"	"	2	"
4	"			"	"	1			30.40	46	46	44		"	"	2	"
5	"			"	"	1			30.39	46	46	44		0.c.	"	0	"
6	"			"	"	1			30.37	46	46	46		b.c.	"	1	"
7	"			"	E.S.E.	1			30.37	46	46	44		"	"	2	"
8	"			"	"	1			30.37	47	46	44		"	"	2	"
9	"			"	South	1			30.36	49	47	45		"	"	4	"
10	Flood			N.W.	S.W.	1-2			30.36	52	50	48		"	"	5	"
11	"			N.W. by N.	"	2			30.35	53	50	48		"	"	3	"
Noon.	"			"	West	2			30.36	52	50	47		"	"	2	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, 1 tons 230 lbs.

Coal remaining on hand at Noon, 89 " 1968 "

P. M.												
1	Flood	N.W. by N.	West	2	30.31	53	51	48	b.c.	Cumy	3	S
2	"	N.N.W.	"	2	30.29	53	51	47	"	"	3	"
3	Ebb	W.N.W.	"	2	30.28	53	51	47	"	"	1	"
4	"	S. by E.	"	2	30.27	53	51	48	0.c.	"	0	"
5	"	S.S.E.	S.W.	2	30.27	52	51	48	"	"	0	"
6	"	"	"	2	30.29	51	51	48	"	"	0	"
7	"	"	"	2	30.30	51	51	48	"	"	0	"
8	"	"	"	2	30.30	51	51	48	"	"	0	"
9	"	"	West	1	30.28	51	51	48	"	"	0	"
10	"	"	"	1	30.27	51	51	48	b.c.	"	2	"
11	Flood	N.N.W.	"	1	30.27	51	51	48	0.c.	"	0	"
Mid.	"	N.N.W. by N.	"	1	30.26	51	50	48	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday December 2nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Cloudy, cool weather. Light airs from E by S. & Calms. At 2:30 swung to ebb.

B. T. Waring
Lieut U.S.N

From 4 to 8 A.M.:
Cloudy & cool. Light airs from E by S. & E.S.E. Ebb tide. Steam in two boilers for heating ship. Liberty party returned. Reid in Pay Dept. for issue to crew, 84 lbs fresh bread. At 7:30 Flag. made Geog. 6 11 Ansd.

F. J. Soomes,
Ensign U.S.N.

From 8 A.M to Meridian:
Cloudy & cool. Light airs to light breezes from South, S.W. & West. Slack water at 10:00 & swung to the flood. At 9:30 mustered & inspected at quarters, & immediately afterwards called "all hands to muster", read the Articles for the better government of the U.S. Navy, & held general muster. Alex Campbell (B.M) Wm Branagan (C.H.) & Jos. Mossop (P.M) were absent without leave. At 9:30 made sick report Num. 6

C. S. Craig.
Naval Cadet U.S.N.

From Meridian to 4 P.M:
Cloudy, cool weather. Light breezes from West. At 3:05 swung to ebb. Jos. Mossop (P.M) returned on board over time.

B. T. Waring
Lieut U.S.N.

From 4 to 8 P.M:
Overcast, cloudy & cool. Light breezes from West & S.W. Ebb tide.

C. S. Craig.
Naval Cadet U.S.N.

From 8 P.M. to Midnight
Cloudy, cool weather. Light airs from West. Swung to flood at 10:20

B. T. Waring
Lieut U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships heads.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N. N. W.	Calm.	0			30.21	50	50	48		C. C.	Cir. Cum.	3	S
2	"			"	"	0			30.23	50	50	48		"	"	2	"
3	"			N. W.	"	0			30.22	50	50	48		C. C.	"	0	"
4	Ebb.			S. S. E.	"	0			30.21	50	50	48		"	"	0	"
5	"			"	"	0			30.20	50	50	48		"	"	0	"
6	"			"	"	0			30.20	49	50	48		"	"	0	"
7	"			"	"	0			30.20	49	50	48		"	"	0	"
8	"			"	"	0			30.20	50	50	48		"	"	0	"
9	"			"	"	0			30.20	50	50	48		C. C. N. Z.	Cum Nimb.	0	"
10	"			"	"	0			30.20	50	50	48		"	"	0	"
11	Flood			N. N. W.	E. S. E.	1			30.20	50	50	48		"	Cum.	0	"
Noon.	"			"	"	1			30.17	50	50	48		"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 1 tons 140 lbs.

Coal remaining on hand at Noon, 88 " 1828 "

P. M.														
1	Flood	N. W. by N.	E. S. E.	1	30.09	51	50	49	C. C. C.	Cum Nimb.	0	S
2	"	N. N. W.	"	1	30.08	52	50	49	"	"	0	"
3	"	"	"	1	30.07	52	50	49	"	"	0	"
4	"	N. N. E.	"	1	30.06	51	50	49	"	"	0	"
5	Ebb.	S. S. E.	"	1	30.05	51	50	49	C. C. N.	"	0	"
6	"	"	"	1	30.05	51	50	49	"	"	0	"
7	"	"	"	1	30.06	50	50	49	"	"	0	"
8	"	"	"	1	30.07	51	51	49	"	"	0	"
9	"	"	"	1	30.08	51	51	49	"	"	0	"
10	"	"	S. S. W.	1	30.08	50	50	49	"	"	0	"
11	"	"	"	1	30.08	50	50	49	"	"	0	"
Mid.	Flood	N. N. W.	"	1	30.08	50	50	49	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday December 3d, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:

Cloudy & overcast; calm. Finished swinging to ebb at 3:30.

H. Hugh Rodman
Ensign U. S. N.

From 4 to 8 A. M.:

Overcast & cloudy, misty last hour. Ebb tide. Calm. At 7:30 flagships made time & dress signal 645. Recd on board & issued to crew, 833 lbs. fresh bread & 100 lbs. each of fresh beef & fresh vegatables.

C. S. Craig.
Naval Cadet U. S. N.

From 8 A. M. to Meridian:

Overcast hazy, rainy weather. Light airs from E. S. E. & Calms. By order of Comdg Officer, confined S. Tollefsen (seaman) in double irons for safe keeping. At 9:30 mustered at quarters. Read fire stations to 2nd Div. Absent without leave, A. Dittmar (S. 2 C.) & A. Campbell (B. M.) & also W. Branagan (C. H.) Held an auction of effects of deserters. W. Branagan (C. H.) was brought on board by U. S. Consulate Constable. Recd in Engr. Dept. 150 feet rubber fire hose. At 10:30 swung to flood. At 9:30 made numerals 6.

B. G. Wooding
Lieut U. S. N.

From Meridian to 4 P. M.:

Overcast, & drizzling rain, damp & raw; light airs from E. S. E. Robt Moir (P. M.) with necessary papers was transferred to this vessel from the Marion. A board of survey, of which Pay Mastr Chas. McDaniels U. S. N. was senior member, met on this vessel, & examined articles in Pay Dept. A Chinese man-of-war & gun-boat left the port. Started swinging to ebb at 3:45.

H. R. Hugh Rodman
Ensign U. S. N.

From 4 to 8 P. M.:

Overcast, rainy weather. Light airs from E. S. E. A. Campbell (B. M.) & G. Dittmar (S. 2 C.) returned on board over time, & by order of Comdg. Officer, were placed under sentry's charge, to await further action on their offences. Riding to ebb. Current 1.9 knots. At 4:30 sent down T. G. yards & masts.

B. G. Wooding
Lieut U. S. N.

From 8 P. M. to Midnight:

Overcast & rainy; light airs from E. S. E., shifting to S. S. W. second hour. Finished swinging to flood at 11:25

H. R. Hugh Rodman
Ensign U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Shipshead.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N.N.W.	W.S.W.	1			30.07	51	51	50		O.C.N.	Cum. Nim.	0	8
2	"			"	"	1			30.07	51	51	50		"	"	0	"
3	"			N.W. by N.	Calm.	0			30.06	51	52	51		O.C.M.	"	0	"
4	Ebb			S.S.E.	"	0			30.06	51	52	51		"	"	0	"
5	"			"	W.S.W.	1			30.05	51	52	51		O.C.	Cum.	0	"
6	"			"	"	1			30.05	51	51	50		"	"	0	"
7	"			"	"	1			30.05	52	51	51		B.C.	"	1	"
8	"			"	"	1			30.06	56	51	50		"	Cir. Cum.	4	"
9	"			S. by E.	W. by S.	1			30.10	56	52	50		"	"	8	"
10	"			"	"	1			30.10	56	53	51		"	"	8	"
11	"			S.E. by S.	N.W. by W.	2			30.10	57	54	51		"	"	8	"
Noon.	Flood			N.N.W.	N.W.	2			30.10	56	54	51		"	"	8	"

Course and distance made good since preceding noon by observations, . knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 1 tons 500 lbs.

Coal remaining on hand at Noon, 87 " 1378 "

P. M.												
1	Flood	N.W. by N.	N.N.W.	2	30.07	55	54	50	B.C.	Cir.	9	S.
2	"	"	"	2	30.07	57	55	52	"	"	9	"
3	"	"	"	2	30.06	58	56	51	"	"	9	"
4	"	"	"	2	30.07	58	56	52	"	"	8	"
5	Ebb	S.S.E.	W.N.W.	1	30.08	58	56	53	"	"	7	"
6	"	"	"	1	30.08	56	56	53	"	"	8	"
7	"	"	Calm.	0	30.09	55	55	53	"	"	9	"
8	"	"	"	0	30.10	55	55	53	"	"	8	"
9	"	"	"	0	30.12	53	54	51	"	"	8	"
10	"	"	"	0	30.15	52	53	51	"	"	8	"
11	"	"	"	0	30.15	52	52	50	B.	"	10	"
Mid.	"	"	"	0	30.15	52	52	50	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday December 4th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast & pleasant. Calm, & light airs from W. to N.W.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A. M.:
Clearing weather. Light airs from N.W. to W. & calms. Recd on board & issued to crew, 86 lbs. fresh bread. At 7:30 flagship signalled 5459. Crossed topgallant yards & loosed sails to a bowline. Riding to ebb.

B. T. Wareing
Lieut U.S.N.

From 8 A. M. to Meridian:
Clear & pleasant; light airs & breeze from N. by W. to N.W. Mustered & inspected crew at quarters & exercised divisions as follows: Nav. & Powder, single sticks; 2nd & 3d & Engrs., rifles; 1st oral instructions. Exercised later at battalion drill. By order of the Comdg. Officer the following punishments were awarded: D. Tollefsen (seaman) for being drunk & disorderly, 5 days in double irons, A. Dittmar (O.S.) for breaking liberty, 5 days in double irons. At 11:30, flagship made gen. sig. 5955 & shortened sail, & at 11:35 gen. sig. 4876 & furled sail. Finished swinging to flood at 11:05. At 9:30 made sick report by signal "5". By order of Comdg. Officer, Ensign F. J. Loomis was confined to the ship for 10 days, for returning on board under the influence of liquor

Hugh Rodman
Ensign U.S.N.

From Meridian to 4 P. M.:
Clear & pleasant. Light breeze from N.N.W. Riding to flood tide. Recd in Pay Dept 19168/100 Mexican dollars.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P. M.:
Clear & pleasant; light airs from N.N.W. & calms. Riding to ebb. At 4:10 flagship made gen. sig. "prep 6143," at 6:12 gen. sig. 6143, & sent down top-gallant yards.

Hugh Rodman
Ensign U.S.N.

From 8 P. M. to Midnight:
Clear & cool. Calm. Swinging to flood at end of watch.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai China,

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N. N. W.	Calm.	0			30.14	51	50	49		b.	None	10	S
2	"			"	"	0			30.13	50	49	48		"	"	10	"
3	"			"	"	0			30.12	50	49	48		"	"	10	"
4	"			"	"	0			30.12	50	49	48		"	"	10	"
5	Ebb.			S. S. E.	W. N. W.	1			30.11	49	48	47		"	"	8	"
6	"			"	"	1			30.11	48	48	47		"	"	8	"
7	"			"	"	1			30.13	48	48	47		f.	"	10	"
8	"			"	"	1			30.15	50	48	47		b. f.	"	10	"
9	"			"	Calm.	0			30.18	53	51	49		"	"	10	"
10	"			"	"	0			30.20	56	53	52		"	"	10	"
11	"			"	"	0			30.20	58	56	54		b. c.	Cir. Cum.	8	"
Noon.	"			E. by S.	S. W.	1			30.19	59	57	54		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, tons 1750 lbs.

Coal remaining on hand at Noon, 86 " 1818 "

P. M.														
1	Flood	N. W. by N.	N. N. W. by N.	1	30.12	59	57	54	b. c.	Cir. Cum.	5	S
2	"	"	S. W.	1	30.12	59	57	54	"	"	5	"
3	"	"	"	2	30.12	60	58	55	"	"	5	"
4	"	"	"	2	30.12	59	58	55	"	"	5	"
5	"	"	"	2	30.13	58	57	52	"	"	6	"
6	Ebb	S. S. E.	"	2	30.16	57	57	54	"	"	8	"
7	"	"	S. S. W.	2	30.16	55	54	52	b.	Clear.	10	"
8	"	"	"	2	30.19	54	52	51	"	"	10	"
9	"	"	Calm.	0	30.20	53	52	51	"	"	10	"
10	"	"	"	0	30.20	53	52	51	"	"	10	"
11	"	"	"	0	30.20	52	51	50	b. c. W.	"	10	"
Mid.	"	"	"	0	30.20	51	51	50	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday December 5th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear, cool & pleasant. Bright starlight. Calm.
Riding to flood tide.

F. J. Soomis
588. Ensign U.S.N.

From 4 to 8 A.M.:
Clear overhead, heavy fog around horizon last two hours; light airs from W.N.W. Received on board in Pay Dept. 107½ lbs. fresh beef, 107½ lbs. vegetables & 86 lbs. fresh bread. At 7:45 crossed top gallant yards.
Riding to ebb.

Hugh Rodman
H R Ensign U.S.N.

From 8 A.M. to Meridian:
Foggy first half, clearing last half. Calm, & light airs from S.W. At 9:30 mustered crew at quarters, then exercised 1st, 2nd & 3d Div. at great guns, Powder Div. machines guns, Marines at skirmish drill. At 10:20 called away running boats, & exercised crews in charge of coxswains. Boats left the ship in 5 mins. from call. At 9:30 made signal Numeral, 6, to flagship. At 9:40 Flagship made signal 2077; Answd & made Int 4363 Flag answd in affirmative. At 10:00 made signal to Flag Int 2077. Flag answd affirmatively. Triced up awnings. At 11:40 furled awning in answer to signal 2074 from Flag. Began swinging to flood tide at 11:50. By Order of Comdg. Officer released John Williams (C.P.C.) from sentry's charge, he being sober. By order of Comdg. Officer, discharged Ah. Kum, at his own request

W. B. Hoggatt
WBH Ensign U.S.N.

From Meridian to 4 P.M.:
Fair, mild & pleasant. Light airs to light breeze from S.W. Flood tide. In accordance with recommendation of Board of Survey, threw overboard, 4416 lbs. hard bread.

F. J. Soomis
FJS Ensign U.S.N.

From 4 to 8 P.M.:
Clear & pleasant. Light breeze from S.W. & S.S.W.
At 4:05 Flag. made preparatory 6143. then 6143 & 2253. Sent down t.g. yards & bent light sails with flagship. Commenced swinging to ebb at 5:10, finished at 6:00

W. B. Hoggatt
WBH Ensign U.S.N.

From 8 P.M. to Midnight:
Clear, cool & pleasant. Heavy dews. Calm.
Ebb tide.

F. J. Soomis
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & H Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N.N.W.	Calm	0			30.20	50	51	50		b.c.w.	Stratus	10	
2	"			"	"	0			30.20	50	51	50		"	"	10	
3	"			"	"	0			30.20	48	49	48		"	"	10	
4	"			"	"	0			30.20	47	49	48		"	"	10	
5	"			"	"	0			30.20	47	49	47		b.w.	"	10	
6	"			"	N.N.W.	1			30.20	48	48	47		"	"	8	
7	Ebb.			S.S.E.	N. W.	1			30.22	50	48	47		"	"	8	
8	"			"	N.N.W.	1			30.23	53	48	47		"	"	8	
9	"			"	"	1			30.24	53	50	49		"	"	7	
10	"			"	N.N.W.	1			30.27	56	54	52		"	"	7	
11	"			"	N.E.	1			30.28	57	55	54		b.c.	Circum.	8	
Noon.	"			"	"	1			30.28	60	57	55		"	"	6	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, tons 1480 lbs.

Coal remaining on hand at Noon, 86 " 338 "

P. M.												
1	Flood	N.N.W.	Calm.	0	30.25	58	57	53	b.c.z.	Cir Cum	4	S
2	"	"	"	0	30.23	58	57	54	"	"	6	"
3	"	"	N.E.	1	30.22	58	57	54	"	"	7	"
4	"	"	"	1	30.23	58	57	53	"	"	8	"
5	"	"	N. by N.	1	30.25	57	57	54	"	"	8	"
6	"	"	"	1	30.30	56	57	54	"	"	8	"
7	Ebb.	S.E. by S.	"	1	30.30	55	55	53	"	"	8	"
8	"	"	"	1	30.30	55	55	53	"	"	8	"
9	"	"	N.E.	1	30.30	55	54	52	b.	Strat	10	"
10	"	S.S.E.	"	1	30.32	54	54	52	"	"	10	"
11	"	"	"	1	30.32	54	53	52	b.c.z.	Cir Cum	8	"
Mid.	"	"	"	1	30.31	53	53	52	"	"	6	

under the command of Commander F. F. Jewell, U. S. Navy,

Thursday December 6th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M:

Clear, cool & pleasant. Calm. Black water at 1:00 & swung to the flood tide.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 A.M:

Clear overhead; foggy around horizon, then thick fog at end of watch. Calm, & light airs from N.N.W. to N.N.W. At 7:30 crossed t.g. & royal yards & loosed sail to a bowline, as per routine, Fog so thick that the flagship could not be seen. Reid & issued to crew, 86 lbs fresh bread. Swung to ebb at 6:30.

W. F. Foggett
Ensign U.S.N.

From 8 A.M. to Meridian:

Fair & pleasant with heavy low lying fog first half. Light airs from N.N.W. & N.W. first half, & N.E. last half. At 9:30 mustered & inspected at quarters. At 9:25 furled sails. From 9:50 until 11:05 exercised at sail drill by the following signals from Flagship: 5521, 5961, Num. 3, 6070, 4723, 5521, 5955, 4826 & 6726.

F. J. Fooms
5th Ensign U.S.N.

From Meridian to 4 P.M:

Fair, hazy & pleasant. Calms, & light airs from N.E. Black water & swung to the flood tide at 12:30. Sent twenty (20) new hammocks to the U.S.F.S. Marion.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 P.M:

Clear, cool & pleasant weather. Light airs from N. by W. At 7:00 swung to ebb tide. At 4:15 Flagship made Prep. 6068 & 5422. Sent down t.g. & royal yards & unbent light sails. At 7:05 began distilling

F. J. Fooms
5th Ensign U.S.N.

From 8 P.M. to Midnight:

Clear, cool & pleasant. Hazy. Light airs from N.E. Ebb tide. Distilling

C. S. Craig.
Naval Cadet U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			S.S.E.	S.E.	2			30.31	54	54	52		G.C.	Cir. Cumy.	8	S
2	Flood			S.W. by S.	"	1			30.32	53	53	52		"	"	6	"
3	"			S.S.W.	"	1			30.32	53	53	52		"	"	4	"
4	"			"	"	1			30.32	53	53	52		"	"	4	"
5	"			S. by W.	"	1			30.32	53	55	53		"	"	5	"
6	Ebb			E. by S.	"	1			30.32	53	53	51		"	"	4	"
7	"			S.E. by S.	E. by S.	1			30.32	53	52	50		"	"	4	"
8	"			"	"	2			30.32	52	52	50		"	"	4	"
9	"			"	S.E. by E.	2			30.36	55	52	49		"	"	5	"
10	"			"	East	3			30.38	57	55	52		"	"	7	"
11	"			"	"	3			30.38	58	56	53		"	Cum. Nim.	1	"
Noon.	"			"	"	3			30.36	58	56	53		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 800 "

Water remaining on hand fit for use at Noon, 1800 "

Coal consumed during the preceding 24 hours, 2 tons 1140 lbs.

Coal remaining on hand at Noon, 83 " 1438 "

P. M.									
1	Flood	S.S.W.	East	4	30.34	58	56	52	G.C. Cum. Nim. 1
2	"	"	"	4	30.31	57	56	52	" " 1
3	"	"	"	4	30.30	57	55	52	" " 2
4	"	"	"	4	30.29	57	55	52	" " 3
5	"	"	"	3	30.29	56	55	52	" " 5
6	"	S. by W.	"	2	30.29	56	55	53	" " 4
7	Ebb	E.S.E.	"	2	30.29	55	55	53	" " 6
8	"	S.E. by E.	"	2	30.29	55	54	53	" " 8
9	"	"	S.E.	2	30.31	55	54	52	" " 8
10	"	S.S.E.	"	2	30.31	54	54	52	" " 7
11	"	"	"	2	30.31	54	54	52	" " 8
Mid.	"	"	"	1-2	30.29	54	54	52	" " 8

under the command of Commander T. F. Jewell, U. S. Navy,

Friday December 7th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Cloudy weather. Light airs & breezes from N. E. At 1:30 swung to flood. Distilling.

B. F. Waring
Lieut U. S. N.

From 4 to 8 A. M.:
Fair & cool. Light airs from E. by E. until last hour when increased to light breeze. At 7:30 Flag made Geog. 645. Answd. At 7:32 Flag made Prep. 6069, followed by 6069. Crossed light yards. At 7:50 U. S. S. Omaha shifted berth to upper anchorage. Ebb tide.

J. H. Towers
Jr. Ensign U. S. N.

From 8 A. M. to Meridian:
Generally cloudy & pleasant. Light to gentle breezes from N. E by E. & East. Ebb tide. At 9:30 mustered at quarters & exercised as follows: 1st, 3d & Star. Divisions, single sticks, 2nd Division rifles, Marines bayonet exercise. At 9:42 exercised at general fire quarters, All divisions ready in 1 Minute. Reid on board, in Navigator's stores, 100 gals. lamps oil. The oil was inspected by the board of inspection, & accepted. Received on board for inspection 275 feet of rubber hose. Distilling.

C. A. Craig
Naval Cadet U. S. N.

From Meridian to 4 P. M.:
Fair but cloudy weather. Light scud flying below upper clouds. Moderate breezes from East. At 12:40 swung to flood. Current 1.1 knots. Distilling

B. F. Waring
Lieut U. S. N.

From 4 to 8 P. M.:
Fair & pleasant. Gentle to light breezes from East. Black water at 7:00 & swung to the ebb tide. At 4:4 Flagship made preparatory & execution signal 6070. Sent down royal yards.

C. A. Craig
Naval Cadet U. S. N.

From 8 P. M. to Midnight:
Clear cool weather. Light airs & breezes from N. E. At 8. stopped distilling Riding to Ebb. Current 1.6 knots.

B. F. Waring
Lieut U. S. N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			S.S.E.	S.E.	2			30.28	52	53	52		b.	Nmbs	10	D.
2	"			"	"	2			30.27	52	53	52		"	"	10	"
3	Flood			W by N.	"	3			30.25	53	53	52		"	"	10	"
4	"			N.N.W.	"	3			30.22	53	53	52		"	"	10	"
5	"			"	"	2			30.21	53	53	52		b.c.	Cir.Cum.	8	"
6	"			"	"	2			30.20	53	53	52		"	"	8	"
7	Ebb			S.S.E. by S.	"	2			30.20	53	51	50		"	"	6	"
8	"			"	"	2			30.21	53	51	50		"	"	4	"
9	"			S.S.E.	S.S.E.	2			30.20	58	55	54		"	"	4	"
10	"			"	"	2			30.20	60	59	56		"	"	4	"
11	"			"	"	2			30.20	61	61	57		"	"	4	"
Noon.	"			"	"	2			30.20	63	62	57		"	"	4	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1600 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 1 tons 140 lbs.

Coal remaining on hand at Noon, 82 " 1298 "

P. M.													
1	Ebb	S.S.E.	S.S.E.	2	30.16	63	62	59	b.c.	Cum.	3	S	
2	"	"	"	3	30.14	64	62	58	"	"	2	"	
3	Flood	N.N.W.	"	3	30.13	63	62	59	0.Cl	"	0	"	
4	"	"	"	3	30.13	63	62	59	"	"	0	"	
5	"	"	"	3	30.13	63	61	59	"	Cum. Nim.	0	"	
6	"	"	"	3	30.13	63	62	59	0.C.L	"	0	"	
7	"	N by W.	"	3	30.12	62	62	59	0.C.	"	0	"	
8	Ebb	S.E. by S.	"	2	30.10	61	62	60	"	Cums.	0	"	
9	"	S.S.E.	"	2	30.10	61	62	60	0.C.N.	"	0	"	
10	"	"	"	2	30.10	61	62	60	"	"	0	"	
11	"	"	"	2	30.10	60	61	60	"	"	0	"	
Mid.	"	"	"	2	30.10	60	61	60	"	"	0	"	

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday December 8, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Clear, gentle breeze from S. E. Finished swinging to flood at 2:05.

Hugh Rodman
Ensign U.S.N.

From 4 to 8 A. M.:
Fair & pleasant. Light breeze from S. E. Black water & swung to the ebb tide at 6:15. At 7:30, Flagship made time & dress signal 0845. Recd on board & issued to crew, 167# lbs. each of fresh beef & vegetables, & 86 lbs. fresh bread.

C. S. Craig
Naval Cadet U.S.N.

From 8 A. M. to Meridian:
Fair, pleasant wrather. Light breezes from S. S. E. At 9:30 made Int. 1017. Flagship made Gen. Sig. 1017. Hired bedding. At 11:30 Flagship made Gen. 2276. Piped down bedding. Hoisted boiler of steam cutter inboard for repairs. Riding to ebb. Current 2.0 knots.

B. F. Waeving
Lieut U.S.N.

From Meridian to 4 P. M.:
Cloudy to overcast; gentle breeze from S. S. E. Finished swinging to flood at 2:10. By order of Comdg Officer, Frank Wilson (Lds) was awarded three (3) days in solitary confinement on bread & water, for profanity. A. Lundquist (Sea) & John Johnson (Sea) were this day discharged from this ship & the U. S. Naval Service, by reason of their own request.

Hugh Rodman
Ensign U.S.N.

From 4 to 8 P. M.:
Fair pleasant wrather. Light to gentle breeze from S. S. E. - passing shower third hour. Riding to flood. Current 1.9 knots.

B. F. Waeving
Lieut U.S.N.

From 8 P. M. to Midnight:
Overcast & rainy; light breeze from S. S. E. Riding to ebb.

Hugh Rodman
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River, at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Skibs Head.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			S. S. E.	S. S. E.	2			30.08	62	60	59		O. C. f.	Cum, Nim,	0	S
2	"			"	"	2			30.08	61	60	59		O. C,	"	0	"
3	"			"	"	2			30.05	61	60	59		O. C.	"	2	"
4	Flood			S. W. by W.	"	2			30.05	61	60	59		O. C,	"	0	"
5	"			"	"	2			30.03	61	61	59		O. C. f.	"	0	"
6	"			"	S. S. W.	2			30.01	60	60	59		"	"	0	"
7	"			S by W.	S. W.	1-2			30.00	60	59	58		"	"	0	"
8	Ebb			S. by E.	"	2			30.00	60	59	58		"	Cums Strat.	0	"
9	"			"	W. S. W.	2			30.01	60	58	57		"	Strmb.	0	"
10	"			S by W.	W. N. W.	2			30.03	59	58	57		O. C,	"	0	"
11	"			S by E.	N. W.	2			30.04	60	58	57		"	"	0	"
Noon.	"			S. S. E.	"	2			30.03	60	59	58		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, tons 1480 lbs.

Coal remaining on hand at Noon, 81 " 2058 "

P. M.														
1	Ebb	S. S. E.	N. W.	2	30.00	61	60	58	O. C. f.	Nim	0	S
2	"	"	"	2	30.00	60	60	58	O. C.	Cums.	0	"
3	Flood	S. W. by S.	S. W. by S.	3	30.00	59	58	56	O. C. f.	"	0	"
4	"	"	"	3	30.00	59	58	56	O. C.	"	0	"
5	"	"	"	3	30.03	59	57	55	f. C.	Cir. Cums.	3	
6	"	"	"	3	30.06	58	57	55	"	"	5	
7	"	"	"	3	30.07	57	56	55	"	"	7	
8	"	"	"	3	30.08	56	55	54	"	"	8	
9	"	S. by W.	S. S. W.	2	30.09	56	54	53	"	"	7	
10	Ebb	S. S. E.	"	1	30.11	56	55	53	O. C.	Cums. Nimb.	0	
11	"	"	"	2	30.11	56	55	53	"	"	0	
Mid.	"	S. E. by S.	South.	3	30.13	56	55	53	"	"	0	

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday December 9th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast with light passing shower first hour. Light breeze from S.S.E. Began swinging to flood at 3:15.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A. M.:
Cloudy, pleasant weather - foggy. Light breezes from S.S.E., S.S.W. & S.W. Light airs from S.W.. Rec'd on board & issued to crew, 84 lbs. fresh bread.

B. T. Wareing
Lieut U.S.N.

From 8 A. M. to Meridian:
Overcast; light breeze from W.S.W. to N.W. Riding to ebb. Comdg Officer inspected ship with crew at quarters. At 9:30 made sick report by signal "3". By order of Comdg Officer, Samson Tollefsen (Seaman) & A. Dittmar (S.G.F.C.) were released from confinement.

Hugh Rodman
HR Ensign U.S.N.

From Meridian to 4 P. M.:
Overcast, with occasional very light passing showers. Light to gentle breeze from N.W. to N.W by N. Swing to flood at 2:30.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P. M.:
Cloudy to clear; gentle breeze from N.W. by W. Riding to flood.

Hugh Rodman
HR Ensign U.S.N.

From 8 P. M. to Midnight:
Cloudy & pleasant. Light to gentle breeze from North & N.N.W. Swung to ebb at 9:30.

W. B. Hoggatt
WBH Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Sluice Head.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			S. E. by S.	North	3			30.11	55	55	53		b. c.	Cir-cum.	8	S
2	"			"	"	2			30.12	54	54	52		o. c.	Cum-nimb.	0	"
3	"			S. S. E.	W. S. W.	2			30.15	54	54	52		"	"	0	"
4	Flood.			S. W.	"	2			30.15	54	54	52		"	"	2	"
5	"			N. W. by W.	"	2			30.14	53	53	51		b. c.	"	4	"
6	"			"	"	2			30.14	53	53	51		o. c. r.	Cir-Cum.	0	"
7	"			"	"	2			30.13	53	53	52		"	"	0	"
8	"			"	"	2			30.13	53	53	52		"	"	0	"
9	Ebb			S by E.	"	2			30.15	54	54	53		o. c.	"	0	"
10	"			S. S. E.	W. N. W.	2			30.18	56	55	54		"	Cum.	0	"
11	"			"	"	1			30.18	56	56	55		"	"	0	"
Noon.	"			"	N. W.	1			30.18	57	56	55		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, tons 1840 lbs.

Coal remaining on hand at Noon, 81 " 718 "

P. M.														
1	Ebb.	S. E. by S.	N. E.	2	30.17	57	56	55	o. c.	Cum. Strat.	0	S
2	"	S. E.	"	2	30.16	57	56	54	"	"	0	"
3	Flood	N. E.	"	2	30.16	57	55	54	"	"	0	"
4	"	N by W.	N. N. E.	2	30.16	56	55	53	"	"	0	"
5	"	N. N. W.	"	2	30.18	56	55	53	"	"	0	"
6	"	"	"	2	30.18	56	55	53	"	"	0	"
7	"	"	"	3	30.25	56	55	53	"	"	0	"
8	"	"	"	3	30.25	56	56	54	"	"	0	"
9	"	N. by W.	"	3	30.27	56	56	54	"	"	0	"
10	Ebb	S. E. by S.	"	3	30.29	56	55	54	"	"	0	"
11	"	"	N. E.	3	30.29	56	55	54	"	"	0	"
Mid.	"	"	"	3	30.29	56	55	54	"	"	0	"

under the command of Commander F. F. Jewell, U. S. Navy,

Monday December 10th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:

Clear first & last hours, cloudy remainder of watch; gentle to light breeze first half, from North, shifting to light breeze from W.S.W. last half. Ebb tide.

F. J. Loomis
FJL
Ensign U.S.N.

From 4 to 8 A. M.:

Cloudy & overcast; light passing showers last three hours. Riding to flood. At 7:25 flagship made time & uniform signal 645. Answered. Received on board in Pay Dept. 105 lbs. fresh beef, 105 lbs. fresh vegetables & 84 lbs. fresh bread.

H. W. Coduman
HWC
Ensign U.S.N.

From 8 A. M. to Meridian:

Overcast, with light airs & breeze from W.S.W. to N.W. At 9:30 went to general quarters; then exercised gun divisions & powder division. Examined magazine & shell-room flood cocks, dry gun-cotton & electrical apparatus & found all to be in good condition. Recd. inspected & passed in Engr. Dept. the following stores: 1-15 inch screw wrench, 1-20 inch screw wrench, 3-15 in. half-round files, 6-15 in. flat files & 4 feet 3 ins. lubricating webbing. Swung to ebb at 9:05. At 9:30 made signal, Numeral "4"

W. B. Foggatt
WBF
Ensign U.S.N.

From Meridian to 4 P.M.:

Overcast, cloudy & raw weather. Light breeze from N.E. Black water at 1:00, began swinging to flood at 2:15, & finished swinging at 3:20.

F. J. Loomis
FJL
Ensign U.S.N.

From 4 to 8 P.M.:

Overcast, with light to gentle breeze from N.N.E. At 4:07 sent down t.g. yards & masts in obedience to signal from flagship. Riding to flood.

W. B. Foggatt
WBF
Ensign U.S.N.

From 8 P.M. to Midnight:

Cloudy & cool. Gentle breeze from N.N.E & N.E. At 9:55 swung to the ebb.

F. J. Loomis
FJL
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Heads.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			S. E. by S.	S. E.	3			30.28	56	55	54		O. C.	Cumi. Numb.	0	8.
2	"			S. S. E.	"	2			30.29	56	55	54		"	"	0	"
3	"			"	"	2			30.29	56	55	54		"	"	0	"
4	"			"	"	2			30.29	56	55	54		"	"	0	"
5	Flood.			S. S. E.	"	2			30.30	55	55	54		"	"	0	"
6	"			S. by W.	"	2			30.30	55	55	54		"	"	0	"
7	"			"	"	2			30.30	55	55	54		"	"	0	"
8	"			"	"	3			30.33	55	54	52		"	"	0	"
9	"			North	"	2			30.35	56	55	53		"	"	0	"
10	Ebb.			E. by N.	"	2			30.36	57	55	53		"	"	0	"
11	"			S. S. E. by S.	"	3			30.36	57	55	53		"	"	0	"
Noon.	"			"	"	3			30.31	56	55	52		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, tons 1660 lbs.

Coal remaining on hand at Noon, 80 " 798 "

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.																	
1	Ebb			S. E.	S. E.	3			30.32	56	55	52		O. C.	Cumi Nimb.	0	
2	"			S. E. by E.	"	3			30.30	59	56	53		L. C.	Cir. Cumi.	3	
3	"			S. by W.	"	3			30.30	58	56	53		O. C.	Nimb Cumi.	0	
4	"			"	"	3			30.30	58	56	53		"	"	0	
5	Flood.			"	"	2			30.30	57	56	54		"	"	0	
6	"			"	"	2			30.32	57	57	55		"	"	0	
7	"			"	"	2			30.32	57	57	55		"	"	0	
8	"			"	"	2			30.32	57	57	55		"	"	0	
9	"			"	S. S. E.	2			30.33	57	56	54		"	"	0	
10	"			S. E. by E.	"	2			30.33	57	56	54		"	"	0	
11	Ebb.			S. E. by S.	"	2			30.34	57	56	54		O. C. M.	"	0	
Mid.	"			"	"	2			30.32	57	56	54		"	"	0	

under the command of Commander J. F. Jewell, U. S. Navy,

Tuesday December 11th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast & cloudy. Light breeze from S. E. Ebb tide.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 A. M.:
Overcast & pleasant. Light airs & breeze from S. E. At 6:30 H.B.M.S. Rambler left the harbor. At 7:30, flagship signaled Geog. 645. At 7:31 sent up t. g. yards & masts in obedience to signal from the flagship. Swung to flood at 8:30. Recd & issued to crew, 84 lbs fresh bread. By order of the Comdg. Officer, placed J. McCoan (J. of Sust) under sentrys charge to await further action for attempting to smuggle liquor.

W. W. Woggatt.
Ensign U.S.N.

From 8 A.M to Meridian:
Overcast, cloudy & raw weather. Light breeze from N.E. Slack water at 9:15 riding to wind & moderate ebb tide remainder of watch. At 9:30 Mustered & inspected at quarters. Prvt. Melburn (U.S.M.C.) absent without leave. Exercised infantry & artillery companies. By order of Comdg. Officer, placed John McCoan (J.S.) in double irons for five (5) days for smuggling liquor. Recd in Engrs. Sept. 2 sets grate bars & 6 guage glasses for steam-cutter.

F. J. Boyington.
Ensign U.S.N.

From Meridian to 4 P. M.:
Overcast & cloudy nearly all watch. Gentle breeze from N.E. Ebb tide. By order of Comdg. Officer, released Frank Wilson (Lds) from confinement, his term of confinement having expired.

C. S. Craig.
Naval Cadet U.S.N.

From 4 to 8 P. M.:
Overcast & cloudy. Light breeze from N.E. At 4:15, in obedience to signal 6143 from Flagship, sent down t. g. yards. At 5:00 swung to flood tide.

F. J. Boyington.
Ensign U.S.N.

From 8 P. M. to Midnight:
Overcast & cloudy, misty last two hours. Light breeze from N.N.E. Slack water at 10:00 & swung to the ebb tide. At 8:08 Marion made general call 1777's code, Answered; then Flagship made interrog. 515. Answered & made 4664

C. S. Craig.
Naval Cadet U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb.			S.S.E.	N.E.	2			30.30	56	56	54		O.S.P.	Cum. nimb.	0	S
2	"			"	"	2			30.29	56	56	54		"	"	0	"
3	"			"	"	2			30.28	56	56	54		"	"	0	"
4	"			"	"	2			30.28	56	56	54		O.C.	"	0	"
5	"			S.E. by S.	"	2			30.28	55	55	54		"	"	0	"
6	Flood			N. by E.	"	3			30.25	55	55	53		"	"	0	"
7	"			N. by W.	"	3			30.25	55	55	53		"	"	0	"
8	"			"	"	3			30.28	55	55	53		"	"	0	"
9	"			"	"	3			30.29	54	55	52		O.P.M.	"	0	"
10	"			"	"	2			30.27	55	54	52		"	"	0	"
11	"			N. by E.	"	2			30.25	55	53	52		"	"	0	"
Noon.	Ebb.			"	"	2			30.24	55	53	52		O.P.M.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 1 tons 410 lbs.

Coal remaining on hand at Noon, 79 " 388 "

P. M.												
1	Ebb	S.E.	N.E.	2	30.22	54	53	52	O.S.P.	Cum. nimb	0	S
2	"	"	"	2	30.20	54	53	52	"		0	"
3	"	"	"	2	30.19	54	53	52	"		0	"
4	"	"	"	2	30.19	54	53	52	"		0	"
5	"	S.E. by S.	"	2	30.20	54	53	52	"		0	"
6	"	E. by S.	"	2	30.20	54	53	52	"		0	"
7	Flood	N by W.	"	2	30.21	54	53	52	"		0	"
8	"	N.N.W.	"	2	30.21	54	53	52	"		0	"
9	"	N. by W.	"	2	30.21	54	53	52	"		0	"
10	"	"	N.N.E.	2	30.20	54	53	52	"		0	"
11	"	"	North	2	30.20	54	53	52	O.C.		0	"
Mid.	Ebb	Calm	"	2	30.20	54	54	53	"		0	"

under the command of Commander F. F. Jewell, U. S. Navy,

Wednesday December 12, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast, with passing light showers. Light breezes from N. E.

B. F. Waggoner
Lieut U.S.N.

From 4 to 8 A. M.:
Overcast, cloudy & raw weather. Gently breeze from N.E. At 6:30 swung to flood. At 7:30 Flag. made Reog. 645. Answered. At 7:37 Flag. made Prep. 6144. Hoisted. Crossed 4.9 yards. Recd. in Pay. Dept. 105 lbs. each, fresh beef & vegetables & 84 lbs bread.

F. J. Boogher
Ensign U.S.N.

From 8 A. M to Meridian:
Overcast & cloudy. Heavy mist first part, light drizzling rain towards end of watch. At 9:30 mustered at quarters. Jas. Milburn (P.M.) was absent without leave. Exercised the divisions as follows: 1st, 2nd & Nav., instructions. Powder, Machine guns. Immediately after quarters, called away all boats, armed & equipped for distant service, Mustered & stationed the crews. Recd on board, in Pay Department, 400 lbs. white sugar, 5 tins ground coffee, 20 lbs each, & 15 lbs. tea. At 9:30 Made sick report. Num. 3. Black water from about 10:00 until noon then swung to the ebb tide.

C. S. Craig.
Naval Cadet U.S.N.

From Meridian to 4 P. M.:
Overcast, cloudy weather, with drizzling rain. Light breezes from N. E. Two Chinese gunboats came in & anchored. Riding to the ebb.

B. F. Waggoner
Lieut U.S.N.

From 4 to 8 P. M.:
Overcast, cloudy with drizzling rain. Black water at 6:30 & swung to the flood tide.

C. S. Craig.
Naval Cadet U.S.N.

From 8 P. M. to Midnight:
Overcast, cloudy weather, with light drizzling rain first two hours. Light breezes from N. E., N.N.E. & North. At Midnight, swung to ebb.

B. F. Waggoner
Lieut U.S.N.

Examined and found to be correct.

T. B. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Ganges River at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			S.E. by S.	North.	2			30.18	54	54	53		O.P.	Cumu. Mode.	0	
2	"			"	"	2			30.16	54	54	53		"	"	0	S
3	"			"	"	2			30.15	54	54	53		"	"	0	"
4	"			"	"	2			30.15	54	54	53		"	"	0	"
5	"			"	N.E.	2			30.15	54	54	53		"	"	0	"
6	"			"	"	2			30.15	54	54	53		"	"	0	"
7	Flood			N. by W.	North.	2			30.15	54	54	53		O.P.D.	"	0	"
8	"			"	N.N.E.	2			30.14	54	53	52		"	"	0	"
9	"			N.N.W.	"	2			30.16	54	53	52		"	"	0	"
10	"			"	North	2			30.18	54	53	52		"	"	0	"
11	"			"	"	2			30.17	54	53	52		"	"	0	"
Noon.	"			N. by W.	"	2			30.15	53	52	51		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ′ ″
- Longitude by D. R. ° ′ ″
- Latitude by observations of ☉ ° ′ ″
- Longitude by chronometer from Forenoon Observations of ☉ ° ′ ″

Position at 8 a. m.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Position at 8 P. M.
- Latitude by ° ′ ″
- Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ☉ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ☉ observed at " ° ′ ″

Variation of the Compass by Azimuth ☉ observed at " ° ′ ″

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal expended during the preceding 24 hours, tons 1750 lbs.

Coal remaining on hand at Noon, 78 " 878 "

P. M.										
1	Flood	N. by E.	North	2	30.15	53	52	51	O.C.d.	Cumu. Nimb.	0	S
2	Ebb	S.E.	N.E.	2	30.10	54	51	50	"	"	0	"
3	"	S.E. by S.	N.N.W.	2	30.10	53	52	51	"	"	0	"
4	"	"	"	2	30.10	53	52	51	"	"	0	"
5	"	"	"	2	30.18	54	53	52	"	"	0	"
6	"	S.S.E.	"	2	30.15	54	53	52	"	"	0	"
7	"	"	"	2	30.18	54	54	52	O.P.	"	0	"
8	Flood	N.N.W.	"	2	30.18	54	53	52	"	"	0	"
9	"	"	"	2	30.18	52	02	51	"	"	0	"
10	"	"	"	2	30.20	52	52	50	"	"	0	"
11	"	N.W. by N.	"	2	30.20	52	52	50	"	"	0	"
Mid.	"	"	"	2	30.20	52	52	50	"	"	0	"

under the command of Commander F. F. Jewell, U. S. Navy,

Thursday December 13th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast & rainy; light breeze from North.
Riding to ebb.

H R Hugh Rodman
Ensign U.S.N.

From 4 to 8 A. M.:
Overcast & cloudy; drizzling rain latter part of watch. Black water at 7:00 & swung to the flood tide. Read on board, & issued to the crew, 84 lbs. fresh bread. At 7:30 the coal came alongside, was inspected & accepted by the board. Commenced coaling ship. The Paymaster was absent from the inspection of the coal.

C. S. Craig.
Naval Cadet U.S.N.

From 8 A.M. to Meridian:
Overcast, with drizzling rain. Light breezes from N. N. E. & North. Engaged in coaling ship. Received in all 50 tons. Issued small stores. Riding to the flood.

B. F. Walling
Lieut U.S.N.

From Meridian to 4 P.M.:
Overcast & rainy, light breeze from N. E to N. N. W.
Finished swinging to ebb at 1:50.

H R Hugh Rodman
Ensign U.S.N.

From 4 to 8 P.M.:
Overcast & cloudy weather - drizzling rain first two hours. Light breezes from N. N. W. Riding to ebb.

B. F. Walling
Lieut U.S.N.

From 8 P.M. to Midnight:
Overcast & cool, light breeze from N.E & W.
Riding to flood. Started distilling at 9:00.

H R Hugh Rodman
Ensign U.S.N.

Examined and found to be correct.

E. B. Calloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			S.S.E.	W.N.W.	2			30.20	51	51	49		o. c.	Cumi nimb.	0	5
2	"			"	"	2			30.18	51	51	49		b.c.	Cum.	6	"
3	"			"	"	2			30.17	50	50	49		b.	None.	10	"
4	"			"	"	2			30.17	49	50	49		"	"	10	"
5	"			"	West	2			30.17	49	49	48		b.f.	"	10	"
6	"			"	"	2			30.18	48	48	47		"	"	10	"
7	"			"	"	2			30.19	48	47	46		"	"	10	"
8	Flood.			W.N.W.	"	2			30.20	47	46	46		"	"	10	"
9	"			N.W by N.	N.N.by N.	2			30.20	49	47	46		b.c.	"	6	"
10	"			N.N.W.	"	2			30.20	51	49	47		"	"	5	"
11	"			N.by W.	N.by W.	2			30.20	52	50	48		"	"	5	"
Noon.	"				"	2			30.20	52	50	48		"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1200 "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 3 tons 1780 lbs.

Coal remaining on hand at Noon, 124 " 1338 "

P. M.												
1		N.N.	West	2	30.18	54	50	48	b.c.	Cir. Cumi.	6	5
2		S. by W.	"	2	30.19	58	56	55	"	"	6	"
3		"	"	2	30.19	58	56	53	"	"	7	"
4		"	W.N.W.	2	30.19	58	56	53	"	"	8	"
5		"	"	2	30.18	56	55	52	"	"	8	"
6	Ebb.	South	"	1	30.18	55	56	53	"	"	8	"
7	"	"	"	1	30.20	54	54	52	"	"	10	"
8	"	"	"	1	30.20	54	54	52	"	"	10	"
9	Flood	N. by E.	Calm	0	30.18	53	53	51	b.	None	10	"
10	"	North	"	0	30.18	51	50	49	"	"	10	"
11	"	N by W.	"	0	30.18	51	50	49	b.f.	"	7	"
Mid.	"		N.N.E.	1	30.19	50	50	49	"	"	7	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday December 14th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M:
Clearing weather. Light breezes from W.N.W. At 3:30 started fires in six boilers for mooring ship. Distilling.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M:
Foggy. Sky clear. Cool weather. Light breezes from West. Read & issued to crew, 105 lbs. fresh beef, 105 lbs fresh vegetables & 84 lbs. fresh bread. At 7:30 Flagship made prep. & gen. signals 1 to 8. Loosed sails to a bowline & crossed royal yards. Made preparations for shifting berth. Riding to ebb.

B.F. Welling
Lieut. U.S.N.

From 8 A.M. to Meridian:
Fair & pleasant; light breeze from N.E. & N. Finished swinging to flood at 8:30. At 9:07 made "Interog. 2259," flagship answered in the affirmative; shortened & furled sails, & at 9:50 got under way & stood down to upper limit of "Chow-Chow" water, & at 10:02 let go stbd anchor in 8 fms. of water, muddy-bottom. At 10:12 let go port anchor, down stream, & moored with mooring swivel, 45 fms. on each chain, in mid-channel. At 10.53 made "Interog. 5455," flagship answered in the affirmative, & loosed sails to a bowline. H.M.S. Mutine & a Chinese gun-boat left the port. At 9:30 made sick report, by signals "3". Draft forward 14 ft; aft 16 ft. Rent the stbd chain. The Berthing Master was on board while shifting berth.

Hugh Rodman
1st R Ensign U.S.N.

From Meridian to 4 P.M.:
Clear & pleasant. Light breeze from West to N.N.W. At 1:00 shortened & furled sails in obedience to signals from flagship. Sent the marine guard under 1st Lieut. Wainwright U.S.M.C. on shore as escort to the Comdr-in-Chief. Hoisted steam cutter's boiler inboard, to repair a bursted tube. Swung to ebb at 1:30. Distilling. By order of the Comdg Officer, placed W.O'Doherty (sea) in double irons until further orders, for disobedience of orders.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.:
Clear & pleasant; light airs & breeze from N.N.W. At 4:12 flagship made "gen. sig. 6076" & sent down royal yards. Finished swinging to ebb at 5:10. Distilling. At 7:50 Flagship made general call, Very's code, & then general signal 4873. Went to general quarters. All divisions ready in 1 min. Called Flagship & made general signal 7 20, which was answered.

Hugh Rodman
Ensign U.S.N.

From 8 P.M. to Midnight:
Partly clear, foggy & cool. Calm, & light airs from S.E. At 8:00 flagship signalled, Very's code, Sent 4639. Attempted to make 4309 in reply, but the green lights failed four times when making "0". Then signalled, night code (Morse), "ammunition is too poor to allow us to make signals." Stopped distilling at 8:35 & left fires under boilers for heating ship. At 8:05 flagship made Gen. Sig. Very's code 674.

W.B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

E.K. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N. N. W.	Calm.	0			30.19	49	48	48		b. f.	None	10	S
2	Ebb			South.	"	0			30.20	48	47	47		f.	"	10	"
3	"			"	"	0			30.20	48	46	46		b. f.	"	10	"
4	"			"	"	0			30.20	48	46	46		"	"	10	"
5	"			"	"	0			30.20	46	46	46		"	"	0	"
6	"			"	"	0			30.20	44	44	44		"	"	0	"
7	"			"	"	0			30.20	44	44	44		"	"	0	"
8	"			"	"	0			30.22	46	44	44		"	"	0	"
9	Flood			N. E. by E.	E. S. E.	1			30.27	50	46	45		"	"	5	"
10	"			N. by W.	S. W.	1			30.29	51	49	48		"	"	7	"
11	"			"	W. S. W.	1			30.29	53	50	49		b.	"	10	"
Noon.	"			"	"	1			30.28	55	53	51		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 900 "

Water remaining on hand fit for use at Noon, 7800 "

Coal consumed during the preceding 24 hours, 1 tons 320 lbs.

Coal remaining on hand at Noon, 123 " 1018 "

P. M.												
1	Flood	N. by W.	N. W.	1	30.26	55	54	51	b. c.	Cum.	8	S
2	"	N. N. W.	"	1	30.25	57	56	52	"	"	8	"
3	"	W. N. W.	N. N. E.	2	30.25	58	57	53	"	"	7	"
4	Ebb	S. by W.	"	2	30.26	56	54	52	"	Cir. Cum.	7	"
5	"	S. by E.	"	2	30.28	56	56	54	"	"	4	"
6	"	South	"	2	30.28	55	56	54	"	"	4	"
7	"	S. by E.	"	2	30.31	53	52	54	"	"	4	"
8	"	"	"	2	30.32	53	53	53	"	Cum.	4	"
9	"	South.	North.	1	30.32	54	53	52	"	"	1	"
10	Flood	N by W.	"	1	30.34	53	53	52	"	"	1	"
11	"	"	"	2	30.35	52	52	51	"	"	1	"
Mid.	"	"	"	2	30.35	52	51	50	"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday December 15, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Calm & foggy. Finished swinging to ebb at 1:30.

From 4 to 8 A. M.:
Very heavy fog around horizon; clear overhead. Calm. Striking fog bell. Recd in Pay Dept. 105 lbs each fresh beef & vegetables & 84 lbs. bread.
Hugh Rodman
Ensign U.S.N.

From 8 A. M to Meridian:
Heavy fog first part. Bright & pleasant last part. Light airs from E.S.E. S.W. & W.N.W. At 9:15 swung to flood. By order of the Comdg Officer, released W. O'Doherty (sea) from confinement. J. Costain (oiler) reported his term of enlistment as having expired. At 9:30 made signal to flagship, numerals 3. At 11:17 flagship made signal, Essex distinguishing pennant 5999. Answered & sent signal officer to the flagship in obedience to the signal. Private Milburn (U.S.M.C.) was absent at 9:30 without leave.
Ensign U.S.N.

From Meridian to 4 P.M.:
Clear, mild & pleasant. Light airs from N.W. first half, shifting & increasing to light breeze from N.N.E. last half. Swinging to ebb tide at end of watch. At 1:30 Flagship made Telegs. 6879, 8433, 6084, 6298, 4204, 6691, 4071, 8374, 0935, 667, 879, 7672, 5270, 7367, 8245, 945, 3418, Refilled 41 red, & 83 green Very's signals.
Ensign U.S.N.

From 4 to 8 P.M.:
Partly clear, pleasant. Light to gentle breeze from N.N.E.
Ensign U.S.N.

From 8 P.M to Midnight:
Cloudy & cool. Light airs from North. At 8:45 Exercised with signals with Flagship, with Army & Navy code.
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			North	North	2			30.35	50	50	49		b.c.	Cumu.	5	S
2	"			N. by E.	"	3			30.35	50	51	49		"	"	6	"
3	"			"	N. by E	3			30.38	51	50	49		"	"	2	"
4	Ebb			S. E. by E.	"	4			30.38	51	50	49		"	"	2	"
5	"			S. E.	N. E.	4-5			30.38	51	50	48		b. s. q.	"	2	"
6	"			"	"	4-5			30.39	51	49	47		"	"	1	"
7	"			"	"	3			30.41	51	49	47		b. c. m.	Cum. Strat.	1	"
8	"			"	"	3			30.42	51	48	48		"	"	3	"
9	"			S. E.	"	3			30.44	53	48	46		b. c.	Circum.	5	"
10	Flood			North	"	3			30.45	52	49	47		"	"	3	"
11	"			"	"	3			30.46	52	50	47		"	"	2	"
Noon.	"			"	"	3			30.45	52	50	46		"	"	1	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 7500 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.														
1	Flood	North	N. E.	3	30.40	52	50	46	b. c.	Cumu.	5	S
2	"	"	"	3	30.40	51	50	46	"	"	2	"
3	"	N. E. by N.	"	3	30.42	51	49	45	"	"	2	"
4	Ebb.	S. E. by E.	"	3	30.42	53	49	46	"	"	2	"
5	"	S. S. E.	"	3	30.44	54	50	47	"	Cumu. Str.	1	"
6	"	S. by E.	"	3	30.46	54	51	48	o. c.	"	0	"
7	"	South.	"	3	30.50	53	50	47	b. c.	Cir. Cumu.	7	"
8	"	"	"	3	30.50	52	50	47	"	"	6	"
9	"	"	"	2	30.50	50	48	46	"	"	8	"
10	"	S. by E.	"	2	30.50	49	47	45	"	Cir.	9	"
11	"	"	"	2	30.50	48	47	45	"	"	9	"
Mid.	Flood.	North.	"	2	30.50	47	47	45	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday December 16th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
First part fair; latter part, heavy masses of dark clouds driving over from N.N.E. Threatening rain. Light to gentle breezes from North; gentle to moderate breezes from N. by E. At ends of watch wind blowing in squalls from N.N.E. At 3:30 swung to ebb.
B. T. Walling
Lieut U.S.N.

From 4 to 8 A.M.:
Cloudy & squally first part; last part, light misty rain. Gentle to stiff squalls from N.E. Prvt. Milburn U.S.M.C. returned from liberty 120 hrs over time. Rec'd & issued to crew, 84 lbs fresh bread. At 7:30 flagship signaled, Squadron Code, Geog. 615.
W. B. Hoggatt
Ensign U.S.N.

From 8 A.M. to Meridian:
Cloudy & raw weather, gentle breezes from N.E. By order of Comdg Officer, released John McCoan O.S. from confinement. At 9:45 swung to flood. At 9:30 the Captain inspected the ship, with crew at quarters.
W. J. Fowler
Ensign U.S.N.

From Meridian to 4 P.M.:
Cloudy, cool weather. Gentle breezes from N.E. At 3:50 swung to ebb. Naval Cadet C. D. Craig was sent to civil Hospital for treatment.
B. T. Walling
Lieut U.S.N.

From 4 to 8 P.M.:
Overcast & cloudy. Cool. Gentle breezes from N.E. Ebb tide.
W. J. Fowler
Ensign U.S.N.

From 8 P.M. to Midnight:
Clear, cool weather. Light breezes from N.E. Bright moonlight. At 11:10 swung to flood. George Bannister O.S. left the steam cutter without permission whilst ashore as one of the boats crew and did not return.
B. T. Walling
Lieut U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N. by W.	N.W.	2			30.50	46	45	44		b.	None	10	S
2	"			N.N.W.	"	2			30.49	46	44	43		"	"	10	"
3	"			"	"	2			30.48	44	43	41		"	"	10	"
4	Ebb.			S by W.	"	2			30.47	44	43	42		"	"	10	"
5	"			South.	"	2			30.46	43	43	42		b. f.	"	10	"
6	"			"	"	2			30.46	43	43	42		"	"	10	"
7	"			"	"	2			30.46	44	44	42		"	"	10	"
8	"			"	"	2			30.46	44	42	41		"	"	10	"
9	"			"	"	2			30.51	50	45	44		"	"	10	"
10	Flood			E by N.	"	2			30.50	53	50	47		"	"	10	"
11	"			North.	N.E.	2			30.50	53	48	45		b. c.	Cir.	7	"
Noon.	"			"	"	2			30.49	53	49	47		"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2700 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.												
1	Flood	North.	East	2	30.47	53	50	48	b. s.	numb.	1	S
2	"	N. by W.	N.N.E.	2	30.43	53	51	47	o. s.	"	0	"
3	"	"	"	2	30.43	53	51	47	"	Cum.	0	"
4	"	N.E. by E.	North	2	30.45	52	50	47	b. c.	cum. numb.	4	"
5	"	South	"	1	30.45	52	51	48	"	Cum	7	"
6	"	"	"	1	30.45	51	51	48	"	Strat.	8	"
7	"	"	"	1	30.46	51	50	48	"	"	8	"
8	"	"	"	1	30.46	51	50	48	"	"	8	"
9	"	"	"	1	30.49	50	49	47	b.	None	10	"
10	"	"	"	1	30.48	49	48	44	"	"	10	"
11	Ebb.	N.N.E.	"	1	30.48	48	48	47	"	"	10	"
Mid.	"	"	"	1	30.48	48	47	46	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday December 17th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced & until 4 A.M.:

Clear & cool; light breeze from N. W.. Finished swinging to ebb at 3:30.

Hugh Rodman
Ensign U.S.N.

From 4 to 8 A.M.:

Clear, cool & pleasant weather. Foggy. Light breeze from N.W. Riding to ebb tide. At 7:35 Flag made Geog. 645. Answd. At 7:31 Flag made Prep. 4876, & loosed sail to a bowline. Recd in Pay & Sept. for issue to crew, 84 lbs. fresh bread. Examined dry gun-cotton & found it in good condition.

J. F. Downes
Ensign U.S.N.

From 8 A.M. to Meridian:

Clear, pleasant weather. Light breeze from N.W. & N.E. At 9:19 sounded fire alarm - all divisions ready in 1m 20sec. At 9:28 went to general quarters; ready in 3m 10s. By order of Comdg Officer confined G. Banister (Las) on bread & water for three days, for leaving boat without authority. Wind at Gutzlauff - North, force 3. At 11:30 Flagship made gen. sig. 5955, shortened sail; also prep. & gen. 4876, furled sail; also telegraphic 8055, 9072, 9319, 3871, 629, 9422. At 9:30 made numeral 4. At 10:15 swung to flood.

B. F. Wagner
Lieut U.S.N.

From Meridian to 4 P.M.:

Cloudy & overcast; light breeze from East to North. In a cutter race of three miles, between the Essex & Marion, this ship won by five boat lengths. Started swinging to ebb at 3:40

Hugh Rodman
Ensign U.S.N.

From 4 to 8 P.M.:

Clear, cool weather. Light airs from North. Riding to ebb.

B. F. Wagner
Lieut U.S.N.

From 8 P.M. to Midnight:

Clear & cool; light airs from N., shifting to N.E. & E. Finished swinging to ebb at 11:00

Hugh Rodman
Ensign U.S.N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtsz River at Shanghai, China.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			North	Calm	0			30.46	49	47	46		b	Stratus	10	S
2	"			N. by W.	"	0			30.44	48	46	45		"	"	10	"
3	"			"	North	1			30.44	47	45	44		"	"	10	"
4	"			N. E. by E.	"	1			30.43	46	45	44		"	"	10	"
5	Flood			South	Calm	0			30.43	46	45	44		b. c.	Cumulus	6	"
6	"			"	"	0			30.44	47	46	45		"	"	1	"
7	"			"	North	1			30.46	47	46	45		"	"	2	"
8	Ebb			"	"	1			30.48	47	47	46		"	"	3	"
9	"			"	E. N. E.	2			30.50	49	48	47		b. c. r.	Cir. Cumulus	5	"
10	"			"	"	2			30.53	57	52	50		"	"	5	"
11	Flood			North	"	1			30.50	56	52	50		"	"	6	"
Noon.	"			"	N. N. E.	1			30.46	55	53	50		b. q.	"	2	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by. ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.												
1	Flood	N. by W.	N. E.	1	30.42	53	52	49	b. q.	Cir. Cum.	2	S
2	"	"	"	1	30.40	53	51	48	"	"	2	"
3	"	"	"	1	30.40	53	51	49	"	"	2	"
4	"	"	"	1	30.40	52	51	48	"	"	2	"
5	Ebb	S. by E.	N. N. W.	2	30.45	53	52	49	o. q.	Cum	0	"
6	"	"	North	2	30.45	53	52	50	"	"	0	"
7	"	"	N. N. E.	2	30.46	53	52	50	"	"	0	"
8	"	South	"	2	30.47	53	52	50	"	"	0	"
9	"	"	"	2	30.49	53	52	50	"	"	0	"
10	"	"	"	2	30.49	52	51	49	"	"	0	"
11	"	"	"	2	30.49	52	51	49	"	"	0	"
Mid.	Flood	N. N. W.	"	2	30.49	52	51	49	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday December 18th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.:
Clear, cool & pleasant. Calm first half, light airs from North last half. Ebb tide.
T. J. Fowler
Ensign U.S.N.

From 4 to 8 A.M.:
Cloudy weather. Light breezes from North. Recd on board & issued to crew 86 lbs fresh bread.
B. H. Walling
Lieut U.S.N.

From 8 A.M. to Meridian:
Fair, hazy & cool first part, cloudy & raw latter part; light breeze from E.N.E. hauling to N.N.E.. Ship swung to flood at 10:45. At 8:32 Flag. made signal 2160. Answd.- Landed battalion. At 9:30 made signal numeral 3. Flag answd. Battalion returned at 11:50. Wind at Gutzlaff, North: force 2
E. D. Galloway
Lieut U.S.N.

From Meridian to 4 P.M.:
Cloudy & raw weather. Light airs from N.E. Riding to flood tide. Sent liberty party ashore. Recd from U.S.S. Omaha with necessary papers, bags & hammocks, Isaac Wall (Seaman) A.B. Falch (S.H.) & Private Farme (U.S.M.C.)
T. J. Fowler
Ensign U.S.N.

From 4 to 8 P.M.:
Overcast & pleasant; light breeze from N.N.W. to N.N.E. Finished swinging to ebb at 4:45. At 4:10 flagship made made "prep 6143": at 4:17 gen. sig. 6143. Answered and sent down top gt. yards. By order of Comdg. Officer, Lt. Fourt E. Turner (U.S.) was placed under sentry's charge, to await further action for being drunk on board ship.
Hugh Rodman
Ensign U.S.N.

From 8 P.M. to Midnight:
Cloudy & cool. Light breeze from N.N.E. At 11:15 swung to flood tide
T. J. Fowler
Ensign U.S.N.

Examined and found to be correct.
E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N. by W.	N. N. E.	1			30.45	50	49	48		L. S.	Cir. Cums.	2	S
2	"			"	"	2			30.45	49	49	47		"	"	2	"
3	"			"	"	2			30.45	48	49	46		"	"	2	"
4	Ebb.			N. by E.	"	2			30.40	47	48	46		"	"	6	"
5	"			E. by E.	"	2			30.42	49	48	47		O. S.	Nimb.	0	"
6	"			"	"	2			30.41	49	49	47		"	"	0	"
7	"			South	"	2			30.40	49	49	48		"	"	0	"
8	"			"	"	2			30.40	49	49	48		"	"	0	"
9	"			"	"	2			30.44	51	50	49		"	"	0	"
10	"			"	N. N. W.	2			30.44	53	51	49		"	"	0	"
11	"			"	"	2			30.44	54	51	49		"	"	0	"
Noon.	Flood			N. by W.	"	2			30.42	54	51	49		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.												
1	Flood	N. by W.	N. N. W.	2	30.38	52	49	47	O. S.	Nimb.	0	S
2	"	"	"	1	30.35	52	50	48	"	"	0	"
3	"	"	"	1	30.35	52	50	48	"	"	0	"
4	"	"	"	1	30.33	53	50	48	"	"	0	"
5	Ebb.	West	N. W.	2	30.32	52	51	49	"	"	0	"
6	"	South	"	2	30.32	52	52	50	"	"	0	"
7	"	"	"	2	30.32	52	52	50	"	"	0	"
8	"	"	"	2	30.32	52	52	50	"	"	0	"
9	"	"	"	2	30.35	52	52	50	"	"	0	"
10	"	"	"	2	30.34	52	52	50	"	"	0	"
11	"	S. S. W.	"	2	30.34	52	52	50	"	"	0	"
Mid.	"	"	"	2	30.34	52	52	50	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday December 19th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, & until 4 A. M.:

Partly clear, pleasant. Light airs & breeze from N.N.E. Swinging to ebb at end of watch.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A. M.:

Overcast; light breeze from N.N.E. Finished swinging to ebb at 4:20. At 7:25, flagship made time & uniform signal "45," & at 7:33, gen. sig. 6144. Answered & crossed top glt yards. Received on board, in Pay Dept. 111½ lbs. fresh beef, 111½ lbs. vegetables & 89 lbs. fresh bread.

H R Sharp Coleman.
Ensign U.S.N.

From 8 A. M. to Meridian:

Overcast, cloudy & raw weather. Light breeze from N.N.E. first hour, shifting to N.N.W. remainder of watch. At 9:30 made numeral 7. Flag answered. Mustered & inspected at quarters. At 9:50 called away all boats, armed & equipped for second service. Exercised at Naval Tactics. Wind at Gutzlaff, North, force 2. Lost overboard one leather fire bucket. Slack water at 11:00. Finished swinging to flood at 11:20. S. Carlberg (O.S.) & T. F. Ellis (Seaman) absent without leave. Sent offrs of reward ashore, for their apprehension, & delivery aboard ship.

F. J. Boorman
5th
Ensign U.S.N.

From Meridian to 4 P. M.:

Overcast & cool. Light airs & breeze from N.N.W.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P. M.:

Cloudy & cool. Light breeze from N.W. At 5:15 swung to ebb tide. At 4:15 Flagship made Prep. 6145 & 2253. Answd. Sent down t. g. yards, & bent light sails.

F. J. Boorman
5th
Ensign U.S.N.

From 8 P. M. to Midnight:

Overcast. Light breeze from N.W. S. Carlberg (O.S.) & T. F. Ellis (Seaman) returned from liberty 28 hrs. overtime & drunk. Ellis attempted to smuggle liquor. By order of the Comdg. Officer, placed them under the Sentry's charge to sober.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Bluff Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N. by W.	N.W.	2			30.33	52	51	49		O.S.	Nimb	0	S
2	"			"	"	2			30.32	51	50	49		"	"	0	"
3	"			"	"	1			30.31	51	50	49		"	"	0	"
4	"			N.N.W.	"	1			30.30	51	50	48		"	"	0	"
5	Ebb			S. by W.	"	1			30.30	51	50	48		O.S.	"	0	"
6	"			South.	"	1			30.30	50	50	48		"	"	0	"
7	"			"	"	1			30.30	50	50	48		"	"	0	"
8	"			"	"	1			30.30	51	51	48		"	"	0	"
9	"			"	"	2			30.33	52	50	49		O.S.	"	0	"
10	"			"	"	2			30.35	53	52	50		"	"	0	"
11	"			"	North	3			30.34	55	54	51		"	"	0	"
Noon.	Flood			N. by W.	"	3			30.32	53	52	50		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.															
1	Flood.	North.	North	3	30.27	52	50	48	O.S.	Nimb.	Nim.	D.
2	"	"	"	2	30.24	52	50	48	"	"	0	"
3	"	N. by W.	"	2	30.23	52	50	48	"	"	0	"
4	"	"	N.N.W.	2	30.23	52	50	48	"	"	0	"
5	"	"	N.W.	2	30.24	51	50	49	O.S.D.	"	0	"
6	Ebb.	S.S.W.	W.N.W.	2	30.25	51	51	49	"	"	0	"
7	"	South	"	2	30.26	52	52	50	"	"	0	"
8	"	"	"	2	30.27	52	52	50	"	"	0	"
9	"	"	"	2	30.28	52	51	50	O.S.V.	"	0	"
10	"	"	N.W. by W.	2	30.28	52	51	49	"	"	0	"
11	"	"	"	2	30.27	52	51	49	O.S.D.	"	0	"
Mid.	"	"	"	2	30.27	52	50	49	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday December 20th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Overcast, cool weather. Light airs from N. W. Riding to the flood.

B. G. Walling
Lieut U. S. N.

From 4 to 8 A. M.:
Overcast & foggy. Light airs from N. W. Ebb tide. At 7:25 Flag. made Geog 6th. Anid. At 7:32 Flag made Prep. 6069. Anid, & crossed light yards.

F. J. Loomis
Ensign U. S. N.

From 8 A. M. to Meridian:
Overcast & cool. Light to gentle breeze from N. W. to North. At 9:30 mustered & inspected crew at quarters; then exercised gun & powder divisions at single sticks. At 9:30 made signal to flagship, numeral 6. At 9:40 flagship made signal 5526; then exercised at sail drill in obedience to the following signals: 5961, 5961 Numeral 3, 5520, 5955 4876, 4276. Finished at 10:40. By order of the Comdg Officer released Geo. Bannister (O.S.) from confinement & released T. T. Ellis (Sea) & S. Carlberg (O.S.) from sentry's charge, they being sober; then confined T. T. Ellis (Sea) in double irons, for five days, for attempting to smuggle liquor. Began swinging to flood at 11:30. Wind at Gutzlaff, at 9:40, North; force 3. Ah Joe Lds, was discharged at his own request.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P. M.:
Overcast weather, threatening rain. Light to gentle breezes from North. Light breezes from N. W. Riding to the flood. Transferred J. F. Pomeroy, (P. M.) to U. S. S. Omaha, with papers & effects.

B. G. Walling
Lieut U. S. N.

From 4 to 8 P. M.:
Overcast, with light drizzling rain. Light breeze from N. W. to W. N. W. At 4:01 sent down t. g. & royal yards, & unbent light sails, in obedience to signals from flagship. At 5:45 swung to ebb tide. Started distillers at 8 Gm.

W. B. Hoggatt
Ensign U. S. N.

From 8 P. M. to Midnight:
Rainy weather. Light breezes from W. by N. W. & N. W. by W. At 8:26, Flagship signalled 4377. Went to fire quarters. All streams in 1m 0s. At 8:31 secured; time 1m 45 sec. Signalled to Flagship at 8:27, 5847. Riding to ebb. Commenced distilling at 5:30

B. G. Walling
Lieut U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai; bluing

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N. N. W.	N. W.	2			30.26	51	50	48		O. C.	Nimb.	0	S.
2	"			N. by W.	"	2			30.24	50	50	48		"	"	0	"
3	"			"	"	2			30.23	49	49	48		O. C. D.	"	0	"
4	"			N. N. W.	"	2			30.20	49	48	47		"	"	0	"
5	Ebb.			W. N. W.	"	2			30.20	48	48	47		O. C.	"	0	"
6	"			S. by W.	W. N. W.	2			30.20	49	48	47		"	"	0	"
7	"			South.	"	2			30.20	50	48	46		C. C.	Cum.	2	"
8	"			"	West.	2			30.23	48	46	45		"	"	2	"
9	"			"	W. by N.	2			30.24	49	48	44		C.	None.	10	"
10	"			"	"	3			30.25	52	49	46		"	"	10	"
11	"			"	"	3			30.24	50	50	47		C. C.	Cir.	9	"
Noon.	"			"	"	3			30.20	53	50	47		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1400 "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.																
1	Flood		N. by W.	W by N.	3			30.15	53	50	47	L. C.	Cir. Cum.	8	S.
2	"		"	"	3			30.10	54	50	46	"	"	8	"
3	"		"	N. W.	3			30.10	54	50	47	"	"	8	"
4	"		"	"	3			30.12	53	50	47	"	"	8	"
5	"		N. N. W.	N. N. W.	2			30.14	53	50	47	"	"	7	"
6	"		N. by W.	"	2			30.16	52	50	48	"	"	8	"
7	Ebb.		South	"	2			30.17	52	50	48	C.	None.	10	"
8	"		"	"	2			30.17	51	50	48	L. C.	Cum.	8	"
9	"		"	"	2			30.17	50	49	47	C.	None.	10	"
10	"		"	"	2			30.17	49	48	47	"	"	10	"
11	"		"	"	2			30.18	49	48	47	"	"	10	"
Mid.	"		"	"	2			30.18	49	48	46	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday December 21st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:

Overcast, light drizzling rain last two hours from N. W. Riding to flood. Distilling.

HR Hugh Rodman
Ensign U.S.N.

From 4 to 8 A. M.:

Cloudy & cool. Light breeze from W. N. W. & West. Recd & issued to crew, 88 lbs. fresh bread & 110 lbs. each of fresh beef & vegetables. At 7:30 flagship made Squad. special signal 643. At 7:31 crossed t.g. & royal yards & loosed sails to a bowline, in obedience to signal from flagship. Distilling.

WBH W B Hoggatt
Ensign U.S.N.

From 8 A. M. to Meridian:

Pleasant weather. Gentle breezes from N. by N. At 9:30 sounded fire alarm. All streams in 50s. Secured in 1m 05s. Inspected & mustered at quarters. Exercised 1st, 2nd & 3d divisions at single sticks. Wind at Gutzlauff, N. W., force 3. At 10:20 Flagship signalled 5955. Shortened sails. Riding to the ebb. Distilling.

B. F. Walling
Lieut U.S.N.

From Meridian to 4 P. M.:

Clear & pleasant, gentle breeze from Nw & N. At 1:04 flagship made gen. sig. 4876, & furled sails. Riding to flood. Distilling.

HR Hugh Rodman
Ensign U.S.N.

From 4 to 8 P. M.:

Clear, cool weather. Light breezes from W. N. W. At 7:00 stopped distiller. At 6:25 swung to ebb. At 4:15 Flagship signalled 6067. Sent down royal yards.

B. F. Walling
Lieut U.S.N.

From 8 P. M. to Midnight:

Clear & cool. light breeze from W. N. W. Riding to ebb.

HR Hugh Rodman
Ensign U.S.N.

Examined and found to be correct.

C. H. Galloway
Lieut. and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S. E. by E.	S. W.	1			30.15	48	48	46		b.	None	10	S
2	"			N. by W.	"	1			30.15	48	48	46		"		10	"
3	"			"	"	1			30.17	48	48	46		"		10	"
4	"			"	"	1			30.17	48	47	46		"		10	"
5	"			N. N. W.	"	2			30.17	48	47	46		b. z.		10	"
6	Ebb.			S. by W.	"	2			30.16	47	46	45		"		10	"
7	"			South.	"	2			30.16	45	43	42		"		10	"
8	"			"	"	2			30.18	47	42	41		"		10	"
9	"			"	S. W. by W.	3			30.21	49	44	43		b.		10	"
10	"			"	West	3			30.24	51	48	49		"		10	"
11	"			"	"	3			30.24	55	52	49		"		10	"
Noon.	"			"	"	3			30.22	60	55	51		"		10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 700 "

Water remaining on hand fit for use at Noon, 7800 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.														
1	Flood	N. N. W.	West.	3			30.20	58	56	51	b.	Stratus	10	S.
2	"	N. by W.	N. N. W.	3			30.18	59	56	51	"	"	10	"
3	"	"	"	3			30.18	59	56	51	"	"	10	"
4	"	N. N. W.	"	3			30.20	58	56	50	"	"	10	"
5	"	N. by W.	N. N. W.	3			30.20	56	55	50	"	"	10	"
6	"	"	"	3			30.23	53	52	48	"	"	10	"
7	Ebb.	S. by W.	"	3			30.25	51	51	48	"	"	10	"
8	"	"	"	3			30.26	51	52	48	"	"	10	"
9	"	"	"	3			30.27	49	49	46	"	"	10	"
10	"	"	"	3			30.29	49	48	46	b. g.	Cumulus	2	"
11	"	"	"	3			30.29	49	49	46	"	"	5	"
Mid.	"	"	"	3			30.31	49	48	46	"	"	2	"

under the command of Commander F. F. Jewell, , U. S. Navy,

Saturday December 22nd, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Bright & cool. Light airs from S. W. At 1:30 swung to flood.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A. M.:
Clear & cold weather. Hazy. Light breezes from S. W. At 6:05 swung to ebb. Received on board & issued to crew, 110 lbs fresh beef, 110 lbs fresh vegetables & 88 lbs. fresh bread.

B. F. Waring
Lieut. U.S.N.

From 8 A. M. to Meridian:
Clear & pleasant, gentle breeze from S. W by N. to West. At 9:30 flagship made gen. sig. 1017, & aired bedding, & at 10:45 made 2240, & piped down bedding. Stowed clean hammocks. At 9:30 made sick report by signal "6" & at 9:35 gen. sig. 2247, answered. At 11:40 flagship made telegraphic signal, "Routine & drills suspended from next Monday evening until Wednesday morning second instant". Answered. At 10:00 a general court martial, of which Commander F. F. Jewell, U.S.N. was president, met on board this vessel for the trial of Walter Salt (O.S.) & adjourned at 11:47, until 10 a.m. of the instant. At 10:00 the signal station, French Bund, signaled "Wind at Gutzkaff, West; force 3". Went to quarters at 10:15 & swept out clean hammocks. Riding to ebb. Received on board from McFarish & Lehman the following articles in Medical Dept:- 400 grams Acacia Pulv. 200 grams Acid Carbolic Cryst. 2000 grams Acid Carbolic Impure, 100 grams Acid Sulph. Aromatic, 800 grams Sp. Aetheris Nit., 500 cc Alcohol, 200 grams Sp. Ammonia Aromat, 200 grams Ammonia Carb, 150 grams Bismuth sub Nit., 200 grams Camphor, 50 grams Tinc. Cantharides, 2500 grams Copaiba, 1200 grams Tinct. Ferri Mur, 1600 grams Glycerine, 1600 grams Glycyrrhiza, 75 grams Iodine, 125 grams Iodoform, 20 K. G. Lini Farina, 50 grams Ole Menth. Pip. 2000 Grams Tinc. Opii Camph, 100 grams Pil Cathart Co, 4 K. 6 Magnesia Sulph, 200 grams Potass Bi Tart, 400 grams Potass Bromide, 200 grams Potass Chlorate, 2000 grams Ol Sodæ Tart, 100 grams Potass Nitrate, 2000 Grams Cumini Copaiæ, 2000 grams Syr. Scillæ, 75 grams Zinci oxide, 75 grams Zinci sulph, 800 Grams Zingiber Fld. Ext., 4 Lt. Brandy Ort., 1000 grams Ext. Buf, 9 Lt. Whiskey, 3 Lt. sherry wine, 6 Hair pencils.

Wm. M. Robinson
Ensign U.S.N.

From Meridian to 4 P. M.:
Clear & pleasant. Gentle breeze from West & N. N. W. Swung to flood at 1:00.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 P. M.:
Clear & pleasant, gentle breeze from N. N. W. Finished swinging to ebb at 7:10.

Wm. M. Robinson
Ensign U.S.N.

From 8 P. M. to Meridian:
Generally cloudy, pleasant. Gentle breeze from N. N. W.

W. B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			S. by E.	N.W.	3			30.32	49	48	45		b.c.	Cir Cumy	4	S
2	Flood			N. by W.	"	2			30.32	47	46	44		"	"	4	"
3	"			"	"	2			30.33	47	45	43		"	"	2	"
4	"			"	"	2			30.33	47	45	44		o.c.	"	0	"
5	"			"	"	2			30.35	46	44	42		b.c.	"	4	"
6	"			N.W by N.	"	2			30.35	44	43	41		"	"	8	"
7	Ebb			S.S.W.	"	3			30.35	42	38	37		"	"	8	"
8	"			S. by W.	N. by N.	3			30.35	40	38	37		b.	None	10	"
9	"			"	N.W.	3			30.39	49	42	41		"	"	10	"
10	"			"	"	3			30.42	50	49	47		"	"	10	"
11	"			"	"	3			30.43	54	49	46		b.c.	Cir.	8	"
Noon.	"			"	"	3			30.41	55	51	47		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.														
1	Ebb	S. E. by S.	N.N.W.	2	30.40	56	54	50	b.c.	Cir.	6	S
2	Flood	N. by W.	"	2	30.38	56	50	46	"	"	7	"
3	"	"	North	2	30.37	56	49	45	"	Cir. Cum.	7	"
4	"	"	"	2	30.37	56	48	44	"	"	5	"
5	"	"	"	2	30.39	50	48	45	"	"	3	"
6	"	"	"	2	30.39	50	49	46	"	"	2	"
7	Ebb	N.E. by N.	N.N.W.	2	30.39	48	47	45	"	"	2	"
8	"	S.S.E.	"	2	30.39	48	47	45	"	"	6	"
9	"	"	"	1	30.40	49	48	46	b.	None	10	"
10	"	"	"	1	30.40	49	47	45	"	"	10	"
11	"	"	"	1	30.40	49	47	45	b.c.	Cum.	9	"
Mid.	"	"	"	1	30.40	49	47	45	"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday December 25th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:
Fair, decreasing to cloudy weather. Cool. Gentle to light breeze from N. W. At 1:30 swung to flood tide.

T. J. Fooks
Ensign U.S.N.

From 4 to 8 A. M.:
Cloudy to clear; light to gentle breeze from W. & N. Finished swinging to ebb at 6:45. At 7:20 flagship made time & uniform signal "613" - Answered. Received on board in Pay Dept. 88 lbs. fresh bread.

Wm. P. Cochrane
Ensign U.S.N.

From 8 A. M. to Meridian:
Clear & cool. Gentle breeze from N. W. At 9:30 the Comdg. Officer inspected the ship with crew at quarters. At 9.30 made signal numeral 7 to flagship. At 9:40 Wind at Gutzlaff N. W. force 3. riding to ebb tide

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P. M.:
Fair, to clear weather. Light breeze from N. N. W. first half, & North last half. At 1:30 swung to flood tide.

T. J. Fooks
Ensign U.S.N.

From 4 to 8 P. M.:
Partly clear; pleasant. Light breeze from North & N. N. W. Swinging to ebb at 7:30.

W. B. Hoggatt
Ensign U.S.N.

From 8 P. M. to Midnight:
Clear, cool & pleasant. Light airs from N. N. E. Ebb tide.

T. J. Fooks
Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtse River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Bibbs Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			South	East	1			30.37	48	46	44		L.	None	10	S
2	"			"	S. W.	1			30.37	48	45	43		L.C.	Cir. Cum.	8	"
3	Flood			N. by W.	"	1			30.36	46	44	42		"	"	8	"
4	"			"	Calm	0			30.33	46	44	42		"	"	6	"
5	"			N. N. W.	"	0			30.31	45	44	43		"	"	2	"
6	Ebb			South	"	0			30.30	45	44	43		"	"	2	"
7	"			"	South	1			30.29	44	42	40		"	"	4	"
8	"			"	"	1			30.29	45	43	42		L.C. f.	"	4	"
9	"			"	N. W.	3			30.30	51	46	43		L.C.	"	5	"
10	"			"	"	3			30.30	52	47	44		"	"	7	"
11	"			"	"	3			30.28	55	51	47		"	"	7	"
Noon.	"			"	"	3			30.24	55	51	47		"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.														
1	Ebb	South	S. S. W.	3	30.21	56	53	49	L.C.	Cir. Cum.	8	"	S
2	"	S. W.	"	3	30.21	57	55	50	"	"	7	"	
3	Flood	N. by W.	S. W.	2	30.20	57	55	51	"	"	6	"	
4	"	"	South	2	30.20	57	55	51	"	"	6	"	
5	"	"	S. S. E.	2	30.20	56	55	52	"	"	6	"	
6	"	"	"	2	30.17	54	53	50	"	"	6	"	
7	"	"	"	2	30.17	52	52	50	L.C.	Cum	0	"	
8	Ebb	S. by W.	"	2	30.17	52	51	49	L.C.	Cir. Cum.	7	"	
9	"	South	S. S. W.	1	30.18	52	50	49	"	"	8	"	
10	"	"	"	1	30.18	52	50	49	L.	None	10	"	
11	"	"	Calm	0	30.18	52	51	49	L.C.Z.	"	11	"	
Mid.	"	"	"	0	30.17	50	50	48	"	"	10	"	

under the command of Commander T. F. Jewell, U. S. Navy,

Monday December 24th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.:

Clear & cool. Light airs from East & S. W. with calms. At 2.45 swung to flood.

B. G. Walling
Lieut U. S. N.

From 4 to 8 A. M.:

Partly clear, foggy last part. Calm, & light airs from South. Reid & issued to crew, 88 lbs. fresh bread & 110 lbs. each of fresh beef & vegetables. At 7:30 flagship made uniform signal 643. At 7:30 loosed sails to a bowline, in obedience to signals from flagship. Swinging to ebb at 6:00.

W. B. Hoggatt
Ensign U. S. N.

From 8 A. M to Meridian:

Clear, cool & pleasant. Gentle breeze from N. W. At 9:29 went to general quarters; secured at 9:41. Tested shell & Magazine flood-cocks. General Court Martial convened at 10:00 & adjourned at 10:25 (Awaiting action of Convening Authority) Naval Cadet C. E. Hudson, U. S. N, reported for duty on this vessel. At 11:05 Flag made Prep. 5955. Aussd & Prep. 3314. Aussd. Furled & unbent topsails & courses. Wind at Gutzlaff, N. W, force 3.

F. J. Boorman
Ensign U. S. N.

From Meridian to 4 P. M.:

Clear, pleasant weather. Gentle breezes from S. S. W. Light breezes from S. W. & South. In a race of three miles, between the gigs of the "Marion" & this ship, this ship's boat won. Flagship signalled 1687 At 2.30 swung to flood.

B. G. Walling
Lieut U. S. N.

From 4 to 8 P. M.:

Fair, & cool weather. Light breeze from S. W. shifting to E. by E. Flood tide. Dressed ship with evergreens. Sent liberty party ashore. By order of Comdg. Offier, G. A. Schworer (S. A. 1 C.), Louis Holk (C. H.), & J. Rodgers (2 C. F.) were placed under sentry's charge to await further action; the former for drunkenness on duty & the last two for attempting to smuggle liquor. Reid from Naval Hospital, Yokohama, Japan; by Japanese steamer Ro. D. Young (C. H.) and H. Boyle Pm.

F. J. Boorman
Ensign U. S. N.

From 8 P. M. to Midnight:

Clear, cool weather. Light airs from S. S. W. & calms. Riding to the ebb.

B. G. Walling
Lieut. U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			South	Calm	0			30.15	48	48	47		bd.	more	10	9
2				"	"	0			30.14	47	47	46		bd.	cs-cumi	6	"
3	Slack			S.E.	"	0			30.13	47	47	46		"	"	6	"
4	Flood			N. by W.	"	0			30.12	47	46	46		"	"	3	"
5	"			"	N.W. by W.	1			30.10	47	46	45		bf.	"	6	"
6	"			"	N.W.	2			30.10	46	46	43		"	"	8	"
7	"			"	"	2			30.10	46	46	43		"	"	6	"
8	Ebb			S. "	"	2			30.10	47	47	47		"	"	6	"
9	"			S. by W.	"	2			30.16	50	47	45		"	"	6	"
10	"			"	"	3			30.16	51	48	46		"	"	6	"
11	"			"	W. by N.	3			30.14	55	51	47		"	"	6	"
Noon.	"			"	"	3			30.14	55	52	48		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.									
1	Ebb	S. by W.	N.W.	3	30.14	56	52	bq	cus-cum	0	S
2	"	"	"	3	30.15	56	52	"	"	2	"
3	Flood	N.W.	"	3	30.15	55	51	"	"	2	"
4	"	"	"	3	30.16	55	52	"	"	2	"
5	"	"	"	3	30.16	54	52	"	"	2	"
6	"	"	"	3	30.17	56	54	lc	"	0	"
7	"	N.N.W.	"	3	30.17	52	51	bq	"	6	"
8	Swinging to Ebb	S. by W.	"	1	30.19	51	50	"	"	6	"
9	Ebb	South	"	1	30.20	50	49	bq	rain	10	"
10	"	"	"	1	30.21	50	49	"	"	10	"
11	"	"	"	1	30.22	49	48	"	"	10	"
Mid.	"	"	"	1	30.23	49	48	"	"	10	"

under the command of Commander T. T. Jewett, U. S. Navy,

Tuesday December 25th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.

Clear to cloudy: calm. Finished swinging to flood at 3.30.

From 4 to 8 A.M.

Ensign U.S.N.

Cloudy with moderate fog. Light breze from N.W. At end of watch moving to SW. Received in Bay Dept 90 cds bread. By order of Condg Officer, placed T. T. Ellis, Ca, from confinement.

From 8 A.M. to Meridian

Ensign U.S.N.

Clear, cool weather. Light to gentle breze from N.W. Gentle breze from W. by N. At 9:10 mustered & inspected at quarters. Riding to flood.

From Meridian to 4 P.M.

Lieut U.S.N.

Clear to cloudy: gentle breze from N.W. By order of Condg Officer T. T. Ellis Sea, was confined in Double irons for safe keeping for being drunk & raising a disturbance on the third deck & John Dimm Sea & N. Lear, C.B.M. for being drunk outboard ship were placed under sentrys charge. Finished swinging to flood at 2.00.

H. Shyft Rodman

Ensign U.S.N.

From 4 to 8 P.M.

Overcast and calm. Gentle breze from N.W. By order of Condg Officer placed W. H. Skinner, P.M. under sentrys charge for further action. Riding to flood.

Lieut U.S.N.

From 8 P.M. to Midnight

Clear & cool: light airs from N.W. Riding to ebb. Torrence (2. C.F.) & J. Robrigo (L.S.) returned outboard from ship visiting under the influence of liquor. Abs. Campbell, B.M. failed to return outboard ship from ship visiting also, N. Stephenson, P.M.

H. Shyft Rodman

Ensign U.S.N.

Examined and found to be correct.

C. D. Galloway

Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Oneida", 3d Rate,

Moored in the Yangtze River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			South	W. N. W.	3			30.22	44	46	42		4	more	10	S
2	"			"	"	3			30.22	44	46	42		"	"	10	"
3	"			"	"	3			30.22	44	54	44		"	"	10	"
4	Flood			N. N. W.	"	3			30.22	44	54	44		"	"	10	"
5	"			"	"	3			30.22	44	54	44		"	"	10	"
6	"			"	"	2			30.22	44	54	44		"	"	10	"
7	"			"	"	2			30.22	44	44	44		"	"	10	"
8	"			"	"	2			30.20	44	14	40		"	"	10	"
9	Ebb			W. by S. W.	N. N. W.	3			30.20	44	34	44		"	"	10	"
10	"			S. by W.	W. by N.	3			30.20	50	44	42		"	"	10	"
11	"			"	N. W.	3			30.20	48	46	45		"	"	10	"
Noon.	"			"	"	3			30.20	50	48	46		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 3 00 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 160 00 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.										
1	Ebb	South	North	2	30.21	55	53	49	b. s.	cirrus	5	S
2	"	"	"	2	30.21	55	54	51	"	"	2	"
3	Slack	S. E. by S.	"	2	30.21	56	54	50	"	"	0	"
4	Flood	N. by W.	"	2	30.21	54	53	48	"	"	7	"
5	"	"	"	2	30.20	53	52	49	"	"	6	"
6	"	"	"	2	30.20	52	51	48	"	"	6	"
7	"	"	"	2	30.22	52	50	52	b. s.	more	10	"
8	"	"	"	2	30.23	52	50	52	"	"	10	"
9	Ebb	S. by W.	"	2	30.24	51	51	49	"	"	10	"
10	"	"	"	2	30.24	51	51	49	"	"	10	"
11	"	"	"	2	30.22	50	50	48	"	"	10	"
Mid.	"	"	"	2	30.22	50	50	48	"	S	"	10	"

under the command of Commander T. F. Keiser, U. S. Navy,

Wednesday December 26th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Until 4 A.M.

Clear and cool. Receds brings from W.N.W.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.

Foggy, cool weather. Lights to, receds brings from W.N.W. Received onboard and issued to crew, 88lbs fresh bread and 116 lbs each fresh beef & vegetables. Riding to the flood.

B.E. Wallace
Asst Surg U.S.N.

From 8 A.M. to Meridian.

Clear and pleasant. Receds brings from N.E. & W. Wind at Santyloff N.W. force 4. At 9.30 made sick report by signal "J". Mustered and inspected crew at quarters at 9.30 and found the following named men absent without leave:- John H. Costain Ord., Alex Campbell, BM, W.J. Doherty, Sea, John Sweeny, O. Sea, F. Ennis, O. Sea, W. Stephenson, PM, and N. Young Sea. By order of Comdg Officer the following punishments were awarded:- J. Rodgers 2 C.F. and Louis Hart, CM, for smuggling liquor, 10 days in double irons, Wm H. Thomas PM, for being drunk on post, F. S. Ellis Sea, for being drunk and disorderly onboard ship, C. Tobrens 2nd and J. Rodrigo Sea, for being absent without leave were each awarded 5 days in double irons. W. Dart, O. Sea, & T.C. Hartin ordinary seaman were transferred to this vessel from the Omaha and placed in double irons for safe keeping. A. Spain, Master, J. Doyle, C.Mr, Watts, Lazey, W.T. and J. Horan, 1 C.F. for being drunk onboard ship were placed under sentrys charge. A search by the Divers of the ships of the Engineers Department under the direction of an Engineer Officer failed to find any intoxicating liquor. A reward of $10 (Ten Dollars) was offered for the delivery on board of the absentees. Finished steaming to ebb at 9.

W.B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.

Partly clear Pleasant. Lights brings from Nord. C. Holm, C. Hall, H. Lyons, Sea and Alex Campbell, BM, returned to the ships drunk and by order of the Comdg Officer were placed under the sentrys charge to sober. Alex Campbell, BM, was absent from the ships without permission.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.

Cloudy to clear: lights brings from Nord. Riding to flood. C. Holm, C. Hall, and H. Lyons, Sea, were by order of the Comdg Officer released from sentrys charge. J.A. Sullivan, Mr, for attempting to leave the ships without permission was placed in double irons for safe keeping.

W.B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight

Clear and pleasant. Lights brings from Nord. Caleb Loy, Sea, returned from liberty with 3 quarts of liquor in his possession. By order of the Comdg Officer was fined him for, 5 days on bread and water. E. Dobrens, Fifer, returned to the ships having left onboard permission. Steaming to ebb at 8.30.

W.B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

D.D. Galloway
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Ella", 3d Rate,

Boarding the Foreign Ships at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			South	North	2			30.25	50	50	48		b	cirrus	10	S
2	"			"	"	2			30.25	48	49	47		"	"	10	
3	"			"	"	1			30.25	47	48	47		"	"	10	"
4	"			"	"	1			30.20	47	48	47		"	"	10	"
5	Slack			N. E by N.	"	2			30.20	48	48	47		b g	cirrocumulus	4	"
6	Flood			North	"	2			30.20	48	49	47		"	"	2	"
7	"			"	N N E	2			30.19	48	47	46		"	"	2	"
8	"			"	"	2			30.19	48	46	45		"	"	3	"
9	"			"	"	2			30.19	50	49	45		"	"	5	"
10	Slack			N E	"	2			30.20	51	49	47		"	"	5	"
11	Ebb			S by E	"	2			30.20	55	52	50		"	"	6	"
Noon.	"			"	"	2			30.18	57	54	50		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1300 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.											
1	Ebb	S by E	N N E	2	30.15	54	54	50	b	cirrocumulus	5	S
2	"	South	"	2	30.16	54	52	51	"	"	4	"
3	"	S by E	"	2	30.16	56	52	50	"	"	4	"
4	"	"	E N E	2	30.16	56	55	52	"	"	4	"
5	Flood	N N E	"	2	30.14	56	56	51	"	"	9	"
6	"	N by W	"	1	30.14	54	54	51	"	"	9	"
7	"	"	Calm	0	30.16	53	54	51	b	cumulus	10	"
8	"	"	"	0	30.16	53	53	51	"	"	10	"
9	"	"	"	0	30.16	52	52	50	"	"	10	"
10	Ebb	N by E	"	0	30.15	52	52	50	"	"	10	"
11	"	South	E N E	1	30.15	52	51	50	"	"	10	"
Mid.	"	"	"	1	30.15	52	51	50	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday December 21st, 1882.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced W. Curtis & A.M.

Bright & clear weather. Light breeze from N.W. Ship as before.

From 4 to 8 A.M. Ensign C. F.

Cloudy. Light breeze from N.W. to N.N.E. Receiving on board 15 tons Nos 9, the forward tier, & in Construction Deck 216 ft Spar Lumber from Fountain, Co. B. Fountain C.S.N. was placed under sentry charge for returning from liberty drunk at 5 P.M. Flag ship made this & Uniform signal 6 P.M. Finished bringing to stow at 5.10.

From 8 A.M. to Meridian Ensign C. F.

Cloudy clear & pleasant. Light breeze from N.N.E. At 9.20 made signal to Flagship Commodore. At 9.30 numbered men at quarters. The following named men were absent without leave viz. O. Doherty Gr. Frank Swinfield P. Murray B. Sea. J. H. Cotton Ord. Sea. J. Lowry Ord. Sea. H. Stephenson O.S. & Henry Young Ord. Sent officer of guard at ten oclock to U.S. Consul General for the apprehension & delivery onboard of U.S.S. Monocacy. The Consul & Officers assigned the following punishments. P. Doyle 2nd F. 48 hours. Ord. J. Horan 1st F. for being drunk & unfit for duty onboard ship were given 5 days confinement in double irons. A. Spain Wtr. for being drunk onboard ship & unable to go in steam cutter 10 days in double irons. A. Campbell B.M. for leaving ship without permission 5 days in double irons. D. A. Sullivan Ord. for being under the influence of liquor onboard ship & also attempting to leave ship without permission 5 days in double irons. J. Johnson Fireman, for leaving ship without permission 3 days solitary confinement on bread & water. The sentences in the foregoing cases were suspended until further orders. P. Boy, 1st for smuggling liquor was given 5 days solitary confinement on bread & water. Rove off main fore & main trusses, main topsail sheets, fore buntlines and whips for topmast staysail & jib halliards. Running to sea at 11 oclock. Starboard Propy inspected & passed 20 ft. whips. Fair landfall. Wind at Starboard Watch force 2.

From Meridian to 4 P.M. W.B. Hoggatt Ensign U.S.N.

Fair & pleasant. Light breeze from N.N.E. Ship as before. Rove off main fore trusses, fore topsail trusses, fore & main topgallant sheets, main topsail halliards & whips for fore topgallant sheets. By order of Comdg officer B. Fountain, C.S.N. from sentry charge.

From 4 to 8 P.M. Ensign U.S.N.

Clear & pleasant, Calm & light airs & Variable from S.E. Last sentence of Gig's crew while boat was coming alongside. Running to stow at 6 P.M.

From 8 P.M. to Midnight W.B. Hoggatt Ensign U.S.N.

Clear cool & pleasant. Calm first hour, light airs from S.E. & remainder of watch. At 9 P.M. steering to the Eastward.

Ensign U.S.N.

Examined and found to be correct.

E.D. Galloway Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Yangtze River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1		Ebb		South	Calm	0			30.14	50	50	48		b.	cumu	10	S
2		"		"	West	1			30.14	49	48	46		"	"	10	"
3		"		"	"	1			30.14	49	47	46		"	"	10	"
4		"		"	"	1			30.13	46	46	45		b.w.	"	10	"
5		"		"	"	1			30.14	45	44	43		b.f.	"	10	"
6		Slowing		"	"	1			30.15	46	44	43		"	"	10	"
7		Flood		N. by W.	"	1			30.15	45	44	43		b.f.	cumu	5	"
8		"		"	Nord	1			30.16	45	42	41		"	"	5	"
9		"		"	"	1			30.19	46	44	44		"	"	4	"
10		"		"	N. E.	2			30.22	49	48	47		b.c.	cig. cumu	2	"
11		"		Nord	"	2			30.23	51	50	47		"	"	5	"
Noon.		Slack		N. E by N.	"	2			30.23	52	51	48		"	"	4	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 900 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.											
1	Ebb	S. by E.	N. E.	2	30.20	55	51	48	b.c.	cig. cumu.	3	S
2	"	South	"	2	30.20	55	55	51	"	"	4	"
3	"	"	"	2	30.20	55	55	51	"	"	5	"
4	"	S. by E.	"	2	30.20	55	55	51	"	"	6	"
5	"	"	"	1	30.22	55	55	52	"	"	6	"
Slowing to Flood	"	S. E.	"	1	30.22	55	54	52	"	"	3	"
7	"	Nord	"	2	30.23	54	53	51	"	"	8	"
8	"	"	"	2	30.24	53	52	50	b.	cumu	10	"
9	"	"	"	2	30.25	52	51	49	b.c.	cig. str	8	"
10	"	"	"	2	30.25	51	50	48	"	"	8	"
11	"	"	"	2	30.24	51	50	49	"	"	8	"
Slowing to Ebb	"	S. by E.	"	1	30.24	50	50	48	"	"	8	"

under the command of Commander T. F. Jewett, U. S. Navy,
Friday December 28th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & Until 4 A.M.

Clear & cool. Calms. Light airs from West. Ninety last hours of watch. Riding to ebb tide. Sweeping.

C. E. Hudson
Asst Surg U.S.N.

From 4 to 8 A.M.

Foggy. Light airs from West & North. Striking fog bell. Broke out fore hold preparatory to receiving provisions from store. Could not see time & unifors signal on account of fog. Received & issued to crew 90 lbs fresh bread & 12½ lbs each of fresh beef & vegetables. Swung to flood at 6 A.M. Seaman Doe, returned to ship having been absent without leave.

W. B. Hoggatt
Surgeon U.S.N.

From 8 A.M. to Meridian

Fair & pleasant. Light breeze from N.E. At 9 exercised & inspected at quarters. The following men were absent without leave J. L. Cottam Ord Sea, Wm Kerrigan, 2 C.F. J. Nolan, Ch. W. P. Murray B.M. W. O. Roberts Lt. Fred Emick, Ord Sea, H. Stephenson, O.M. & H. Young, Seaman Wm Kerrigan, 2 C.F. left the ship without permission. Received in Pay Dept the following stores: 2200 lbs Flour, 2000 lbs Pork, 150 lbs Dried Fruit, 250 lbs Tomatoes, 600 lbs Beef, 450 lbs Ham, 345 lbs Sausage Meat, 450 lbs Rice, 1200 lbs Canned Meats, 360 lbs Beans, 80 gallons Molasses, 205 lbs Butter, 500 lbs Oatmeal, 500 Cornmeal, 260 lbs Suet, 650 lbs Pickles, 2200 lbs Sugar, 650 lbs Coffee, 125 lbs Tea, 80 gallons Vinegar, 45 gallons Peas, 50 lbs Vegetables & 40 lbs Candles. Fitting new main T'gallant sheets & new tackle pall sheets. Swinging to ebb tide at end of watch. Sweeping. Wind at 7 A.M. N.E. force 2

J. F. Jewett
Surgeon U.S.N.

From Meridian to 4 P.M.

Fair & pleasant. Light breeze from N.E. Riding to ebb tide. Overhauling running rigging. Sweeping.

C. E. Hudson
Asst Surg U.S.N.

From 4 to 8 P.M.

Fair & cool weather. Light breeze from N.E. At 6 A.M. swung to flood tide. John Moore, Ord Sea, returned from liberty at 8 P.M. Wm P. Murray B.M. 52 hours overstay. Henry Young Ord Sea, returned outboard drunk having left the ship on the 25th inst without permission & by order of Comdg Officer was placed under extra charge. At 6.50 started sweeping.

J. F. Jewett
Surgeon U.S.N.

From 8 P.M. to Midnight

Clear & cool. Light airs to light breeze from N.E. F. Smith Ord Sea & Wm Kerrigan 2 C.F. returned aboard ship. By order of Comdg Officer placed Wm Kerrigan, 2 C.F. under extra charge. At 11 P.M. commenced swinging to ebb tide.

C. E. Hudson
Asst Surg U.S.N.

Examined and found to be correct.

F. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,
Moored in the Yangtze River at Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			South	Calm	0			30.21	50	50	48		b.	cum	10	S
2	"			"	N.W.	1			30.21	50	50	48		"	"	10	"
3	"			"	"	1			30.22	49	48	47		"	"	10	"
4	"			"	"	2			30.22	48	47	46		b.c.	"	10	"
5	"			"	N.E.	1			30.21	48	47	46		b.c.	"	10	"
6	"			"	"	1			30.21	48	47	46		"	cu cum	6	"
Slunging to	Flood			S.E. by E.	"	2			30.23	49	47	46		"	"	3	"
8	"			North	"	2			30.24	49	46	45		"	"	6	"
9	"			"	E.N.E.	2			30.25	50	47	46		b.c.	"	5	"
10	"			"	N.E.	1			30.26	51	49	48		"	"	9	"
11	"			"	"	1			30.24	54	51	49		"	"	9	"
Noon.	"			"	"	1			30.21	56	53	50		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 300 gallons.

Water Distilled during the preceding 24 hours, 900 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.													
1	Ebb		S.S.E.	S.E.	1		30.19	58	55	52	b.c.	cu cum	4	S
2	"		S. by E.	"	2		30.17	58	56	54	"	"	5	"
3	"		"	"	3		30.15	58	56	52	"	"	6	"
4	"		"	"	3		30.13	58	56	52	"	"	7	"
5	"		South	E. by S.	3		30.11	58	56	53	"	"	7	"
6	"		"	"	3		30.11	60	55	51	"	"	7	"
7	Slunging		S. by E.	"	3		30.25	46	45	45	b.	cu cum	10	"
8	"		"	"	3		30.26	38	36	35	"	"	10	"
9	Flood		North	"	3		30.11	53	50	26	"	"	10	"
10	"		"	"	3		30.11	53	50	26	"	"	10	"
11	"		"	S.E. by S.	2		30.11	53	50	25	"	"	10	"
Mid.	"		"	"	2		30.11	53	50	25	"	"	10	"

under the command of Commander F. F. Jewett, U. S. Navy,

Saturday December 29th 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ex Watch 4 A.M.

Clear pleasant weather. Hazy last hours. Light airs, and breze from N.W. with calms. At 12:10 moving to eb.

B.R. Walling
Lieut U.S.N

From 4 to 8 A.M.

Cloudy and cool weather. Foggy. Light airs to light breze from N.E. At 7:30 Flagship made Ensigns 6 & 3. Answered at 7: moving to flood. John H. Certain, Oiler, returned from leave 96 hours overdue. Received in Day Sept's provisions to mess, 110½ lbs fresh beef & vegetables & 98 lbs bread. Wm O. Doherty, Ea, returned onboard 8 hours overdue.

F.P. Ingram
Ensign U.S.N

From 8 A.M. to Meridian

Generally cloudy & misty. Light airs to light breze from E.N.E & N.E. Wind N.E at Sutzhaff, force 1. Quarters at 9:30 inspected bags. M. Stephenson, P.M., returned outboard at 9:40. William Henry, P.M. who transferred from the "Omaha" to this ship. By order of Comd'g Officer placed under arrest in charge of Master at Arms by Summary Court the following men:- H. Young, Ba. Wm Kerrigan, 2 C.F. Wm O. Doherty, Ea, Jno Sweeny, Ord Ea, Frederick Smith, O. Ea, & M. Stephenson, P.M. Riding to flood tide.

G.E. Hudson
Naval Cadet U.S.N

From Meridian to 4 P.M.

Clear, pleasant weather. Light to gentle breze from S.E. Copies of specifications were served upon W.O. Doherty Ea, John Sweeny, Ord Ea, Wm Kerrigan, 2 C.F., Richard Stephenson, P.M., Frederick Smith, Ord Ea, and H. Young, Ba. At 1:05 moving to eb.

B.R. Walling
Lieut U.S.N

From 4 to 8 P.M.

Clear & cool. Gentle breze from E.S.E. Flagship fired a salute of 3 guns, Chinese flag at the fore. Moving to flood tide at 7:50.

G.E. Hudson
Naval Cadet U.S.N

From 8 P.M. to Midnight

Clear, pleasant weather. Gentle breze from E.N.E. Light breze from S.E by S. Riding to flood.

B.R. Walling
Lieut U.S.N

Examined and found to be correct.

C.D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shanghai, China

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			South	S.S.E.	2			30.10	53	52	51		b.s	str	9	5
2	"			"	"	1			30.09	53	52	51		"	"	8	"
3	"			"	"	1			30.09	52	51	50		"	cir str	6	"
4	"			"	"	1			30.09	52	51	50		"	cir cumu	3	"
5	"			"	"	2			30.09	52	52	51		"	"	2	"
6	"			"	South	2			30.09	53	52	51		b.c.	cu str	0	"
7	"			"	S by W.	2			30.09	53	52	50		b.c.	"	1	"
8	"			"	"	1			30.09	53	51	50		"	"	0	"
9	Flood			North	Calm	0			30.09	56	54	52		"	cir cumu	5	"
10	"			"	South	1			30.09	55	55	50		b.c.	"	7	"
11	"			N by W.	S.S.W.	1			30.09	59	54	54		"	"	8	"
Noon.	"			"	"	1			30.06	60	58	56		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2659 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.											
1	Flood	N by W.	W.S.W.	2	30.036	56	56	b.c.	cumu	10	5
2	Swinging			2	30.026	60	54	"	"	10	"
3	Ebb	S by W.	Calm	0	30.026	56	56	"	"	10	"
4	"	"	"	0	30.026	56	56	"	"	10	"
5	"	S by E.	E.N.E.	1	30.016	26	26	b.c.	cir cumu	7	"
6	"	South	"	1	30.016	56	56	"	"	7	"
7	"	"	East	1	30.016	56	56	"	"	8	"
8	"	"	"	1	30.016	56	56	"	"	8	"
Swinging to Flood	"	E by N.	Calm	0	30.016	56	56	"	"	8	"
10	"	North	East	1	30.026	56	56	b.c.	cumu	10	"
11	"	"	N.E.	1	30.026	56	58	"	"	10	"
Mid.	"	"	"	1	30.026	56	53	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday December 30th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences M. Curtis & A.M.
Clear to cloudy. light airs from S.S.E. Riding to ebb. Mason rose at 3. 40.

From 4. to 8. A.M.
Ensign U.S.N.

Overcast & cloudy, foggy last part of watch. Light variable airs and breeze. Received in Day Dept. 90 lbs fresh bread. Riding to ebb tide. At 5.20 flagship made geographical 640.

From 8 A.M. to Meridian.
C. E. Hudson
Asst Cadet U.S.N.

Clear Pleasant weather. Foggy first hour. Light airs from South & S.S.W. At 9.30 Comdg Officer inspected ship's crew at quarters. Afterwards held Funeral Musters & read Squadron Court Martial order No 8. Absent without leave R. T. Young, C.H. Wind at Intrepid Docks, fresh. At 12 noon to flood.

From Meridian to 4 P.M.
D.F. Wadleigh
Lieut U.S.N.

Clear & warm. Light airs from W.S.W. first part, calm last part. Sent a burial party from this vessel to take part in the funeral of a man from the Marion & half masted & mast headed colors on ships. H.B.M.S. "Firebrand" came in & anchored at 2.25, hoisted her. Sent divine services onboard. Finished sweeping to ebb at 2.10.

From 4 to 8 P.M.
H.R. Hughes Rodman
Ensign U.S.N.

Clear Pleasant weather. Light airs from S.W. & Var. Riding to ebb.

From 8 P.M. to Midnight
D.F. Wadleigh
Lieut U.S.N.

Clear & Pleasant, calm & light airs from S.W. & S.E. Finished sweeping to flood at 9.05.

H.R. Hughes Rodman
Ensign U.S.N.

Examined and found to be correct.

C.D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Shanghai,

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N. by E.	N. E.	1			30.035	55	54	53		b.	cum	10	S
2	Swinging			"	"	1			30.025	55	54	53		"	"	10	"
3	E. by			South	"	1			30.025	55	54	53		"	"	10	"
4	"			"	"	1			30.025	55	54	53		"	"	10	"
5	"			"	"	1			30.015	55	54	56		b.c.	cum	6	"
6	"			"	"	2			30.015	54	53	52		"	"	2	"
7	"			"	N. N. E.	2			30.025	54	54	53		"	"	2	"
8	"			"	North	1			30.055	55	54	55		o.c.	"	0	"
9	Flood			N. E.	N. E.	2			30.055	55	54	52		"	"	0	"
10	"			North	"	2			30.065	65	54	52		"	"	0	"
11	"			"	"	3			30.065	65	55	53		b.c.	"	1	"
Noon.	"			"	"	4			30.055	55	55	53		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.													
1	Flood	N. by E.	N. E.	3-4	30.035	85	65	61	b.c.q.	cir. cum. strat.	3	S
2	"	"	"	3-4	30.035	95	65	55	"	"	3	"
Swinging to Ebb	N. E. by N.	"	3-4	30.045	85	65	64	10.c.q.	cum. strat.	0	"
4	Ebb	E. by S.	"	3-4	30.045	85	65	64	b.c.q.	"	2	"
5	"	"	"	4	30.055	95	64	58	"	"	6	"
6	"	"	"	4	30.055	95	64	59	"	"	2	"
7	"	"	"	4	30.065	95	65	62	b.	cum.	10	"
8	"	S. S. E.	"	3	30.085	85	65	61	"	"	10	"
9	"	"	"	4	30.085	75	64	62	o.c.	cum.	0	"
10	Flood	North	"	3	30.095	65	63	61	"	"	0	"
11	"	"	N. N. W.	3	30.095	55	53	51	"	"	0	"
Mid.	"	"	North	3	30.105	45	30	61	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday December 31st, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.
Clear & Pleasant. Light airs from N.E.

W.B. Haggatt
Ensign U.S.N.

From 4 to 8 A.M.

Foggy pleasant weather. Light airs from N.E. Light breezes from N.N.E. Received onboard & issued to crew 90 lbs fresh bread, 112 lbs each of fresh beef & vegetables. Riding to the ebb.

B.F. Watkins
Ens U.S.N.

From 8 A.M. to Meridian.

Overcast & cloudy, foggy first part of watch, gentle to moderate breeze from N.E. Wind at Sunset N.E. free 2. Strength of tide at half flood 2.2. Mustered & inspected crew at quarters at 9.30 & mast sick, reported "9" by signal at same time. Received onboard in Equipment Dept 1 cord of wood from Chas Jack & Co. Received an official visit from the Comdg Officer of H.M.S. "Firebrand". A summary court martial of which Ens U.S. Galloway U.S.N. was senior member met at 10 A.M. & tried Wm Kerrigan, 2 C.F., Henry Young, Sea, Wm O. Doherty, Sea & H. Stephenson, P.M. & took a recess from 11.30 until 1 P.M. T.T. Ellis, Sea, Jos Cobriga, Ldsm, C. Todrick, 2 C.F. & Wm Thomas, Sea, were released from confinement their terms of confinement having expired. Finished scrubbing to flood at 9.05.

Hugh Rodman
Ensign U.S.N.

From Meridian to 4 P.M.

Cloudy squally & pleasant. Winds to moderate breeze from N.E. The Comdg Officer paid an official visit to H.B.M.S. Firebrand. Received from U.S.S. Monocacy General Court Martial Prisoner Wm Edwards Ldsm. By order of the Comdg Officer placed Wm Edwards, Ldsm, in double irons for safe keeping. At 1.00 Summary Court Martial met for the trials of Young O.S. and Fred Smith, O.Sea. Court took a recess at 1.05 & resumed at 1.36 & adjourned at 2.15 to await the action of the reviewing authority. Lieutenant Henry C. Searing, U.S.N. reported for duty on this vessel.

W.B. Haggatt
Ensign U.S.N.

From 4 to 8 P.M.

Cloudy to clear. moderate breeze from N.E. this occasionally freshening. Discharged from this ship & the U.S. Naval Service At Sea Ship Steward, by reason of his own request. H.M.S. Cockchafer came in at 4.15 & moored. Riding to ebb & tide until 6.15 & during remainder of watch to rode.

Hugh Rodman
Ensign U.S.N.

From 8 P.M. to Midnight

Overcast. Winds to moderate breeze from N.E. to N.N.W.

W.B. Haggatt
Ensign U.S.N.

Examined and found to be correct.

T.D. Galloway
Lieut & Navigator.